H.264 Standalone DVR
4CH/8CH/16CH

USER MANUAL

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- **Power**

  This DVR select the adaptor is DC12V; please make sure the power supply voltage before use the machine.

  If long time do not use the machine, please turn off the power of DVR machine, and let the electric plug away from power socket;

- **safety**

  This DVR only for indoor use, as for prevent short circuit or electric danger, please do not let the DVR in the raining or humid area.

  In case any solid or liquid inside the case of DVR, please turn off the power immediately, and ask the qualified technician check it before reboot the DVR;

  The DVR is the precision machine, there is nothing for repair by customers themselves in it, when it break down, please ask the qualified technician to check and repair, or contact with the agents of it.

- **Installation**

  Please keep the DVR in level for installation;

  Pay attention to equipment ground;

  For the first time to install the DVR, please make sure if the hard disk drive install or not;

  Prevent to open the case and change the hard disk drive in electrified;

  Propose to select the performance of hard disk drive will be 7200 rotating speed person second;

  Please select the appropriate installation site, so let the air can be free flow inside the DVR, prevent the machine overheating;

  Please do not install the DVR nearby the radiator, air chute etc. heat source, or where the direct sunlight, too much dust, or mechanical vibration or attack;

Chapter one Products Introduce

1.1 Technical Parameter

Compression standard	H.264 baseline profile@L3.1
Input	Composite 1.0Vp-p/75Ω,BNC×4/ BNC×8/ BNC×16
Video output	Composite 1.0Vp-p/75Ω,BNC×1, VGA×1
Resolution	Preview D1 720×576 (PAL) , 720×480 (NTSC) CIF 352×288 (PAL) , 320×240 (NTSC) Recording D1 720×576 (PAL) , 720×480 (NTSC) CIF 352×288 (PAL) , 320×240 (NTSC)
Bit rate	Preview/ recording 4ch 100fps(PAL), 120fps(NTSC 8ch 200fps(PAL), 240fps(NTSC) 16ch 400F/S(PAL), 480F/S(NTSC)
Audio input	-8dB~22k,RCAx4(4ch), RCAx4(4ch)
Audio output	-8dB~92dB,RCAx1
Audio decode	ADPCM
Alarm input	Input low level alarm, user setting normal open or normal close, Varies according to the model
Alarm output	1ch output or 2ch output;Varies according to the model
Recording mode	Manual recording, timing recording , motion detection recording and external alarm recording
Simplex/duplex/ triplex	triplex(recording, playback , LAN transmission)
LAN	RJ45(10M/100M self-adapting)

PTZ control	Yes
Communication	RS485×1，USB2.0×1
USB	USB mouse control
Hard disk drive	1or2x SATA（2TB or above）
Remote control unit	Yes
Dimension	Main board size : 220mm x 112mm
Power supply	AC110-230V

1.2 Performance

Real-time monitoring	Turn-by-turn analog video output and VGA interface, according to TV monitor or VGA monitor to live view in 1/4/8/9/16 or more video channel to monitoring the recording streaming and the record file capacity in every hours every channel, to presentation the status of video channel, recording, dynamic detection, video loss, monitoring lock-up. You can view the system log in local DVR.	Storage function	Internal 1or2 SATA interface, MAX 2TB hard disk drive, the file of hard disk drive include cover mode circulation recording and none cyclical recording, the storage data to use the proprietary format, can not falsify the data, make sure the data safety.
Compression format	Video compression format:: H.264 Support 8ch video and audio signal, video and audio maintaining stability in synchronous.	Backup function	Through USB interface to backup. (for example USB drive and mobile hard disk drive etc.) The video file can be downloaded by Client software through LAN to laptop hard disk drive.

Recording and playback function	* Multiplex, to achieve real time recording to be independent at the same time to single channel playback, research and backwards, network monitoring, network search download etc. * Multiple recording mode: Manual, normal, alarm, linkage, dynamic detection recording etc. turn-by-turn pre-recording function. * Can playback the record file in DVR through network, to achieve quick-search the recording file and recording type, multiple playback type: SLOW, Fast Forward, Backwards, step Forward. Display the exact time of event occurred while recording file playback.	Network Operation function	* through network to real time remote monitoring; * PTZ control * recording research and real time playback; * system setting parameter modify and the system software upgrade; * remote monitoring alarm process and view the system log message; * to use embedded TCP/IP protocol and Embedded Operation System, can access the DVR through client software program bundle in the package; * Management Model: use enhancement user management, password mode to make sure the valid user to login the system, flexible convenient and fast to set the different permission user requirement.
Alarm linkage function	8ch alarm input (alarm event mode can be set normal open or normal close selection), and turn-by-turn video loss alarm, dynamic detection alarm, the alarm device may be smoke detection censer, temperature detector, IR detector. Possess 4ch relay switch alarm output, flexible convenient and fast to achieve alarm linkage and lighting control at site. They're possess protective circuit in Alarm input and alarm output port, make sure the device not to damaged.	Com-munication port	* Possess specific interface, achieve alarm input and PTZ control; * possess a standard Ethernet interface, achieve the network remote monitoring.
PTZ control	* Support PTZ decoder through RS485 communicate * scalable multiple decoder protocol, easy to achieve to control the pan driver and speed dome camera function.	Intelligent operation	* mouse operation function; * In menu for same setting and to process shortcut copy operation

Chapter Two Hardware

2.1H.264 standalone 4CH/8CH/16CH DVR

2.1.1 Hard disk Installation

For the first use, please install the hard disk

○,1Remove the screws on both sides of shell

○,2extracted from the next cover up

○,3connect hard disk and mother board

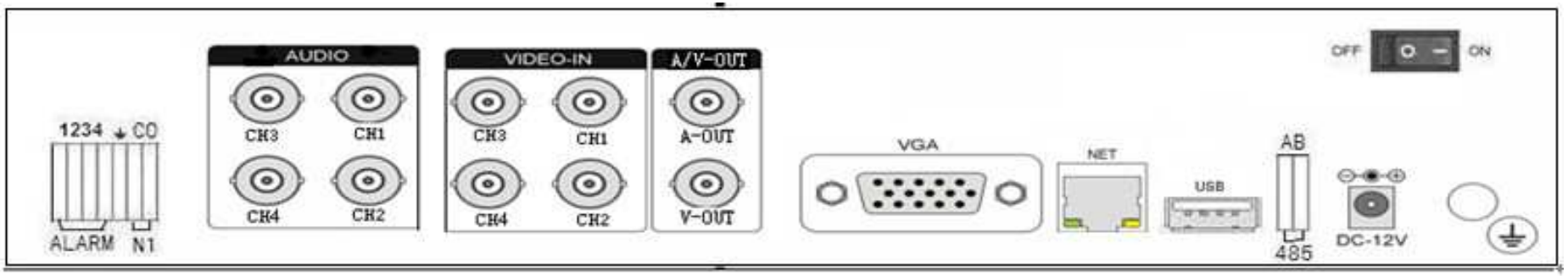
○,4fix the screw of hard disk

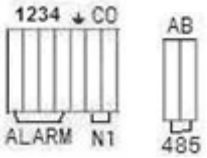
○,5close cover

○,6install the screws on both sides of shell

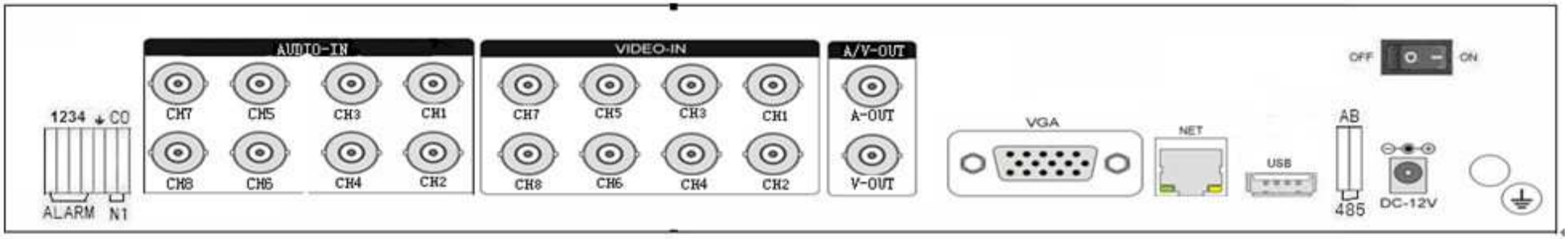
2.1.2 Rear panel

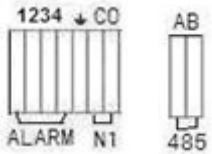
4CH



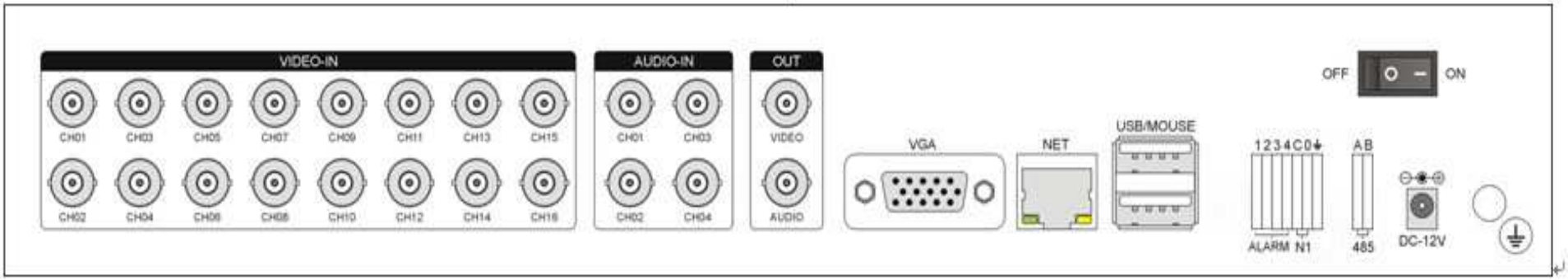
Item	Interface	Description
1	VIDEO IN	4ch video input
2	AUDIO IN	4ch audio input
3	V-OUT	1ch video output
4	A-OUT	1ch audio output
5	VGA	VGA monitor
6	NET	RJ45 for internet
7	USB/ MOUSE	First USB for backup or upgrade system of DVR; Second USB for mouse
8	ON/OFF	Power supply switcher
9	DC-12V	Power adaptor port
10		ALARM IN：1 2 3 4 alarm input port RS-485：A, B
		ALARM OUT: N1 alarm output port, every channel connect GND、OUT、COM; every two channel OUT, COM port is for GND;

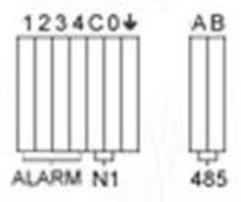
8CH



Item	Interface	Description
1	VIDEO IN	8ch video input
2	AUDIO IN	4ch audio input
3	V-OUT	1ch video output
4	A-OUT	1ch audio output
5	VGA	VGA monitor
6	NET	RJ45
7	USB/ MOUSE	First USB for backup or upgrade system of DVR; Second USB for mouse
8	ON/OFF	Power supply switcher
9	DC-12V	Power adaptor port
10		ALARM IN：IN1-IN4 alarm input port RS-485：A , B
		ALARM OUT: N1 N2 alarm output port, every channel connect GND、OUT、COM; every two channel OUT, COM port is for GND;

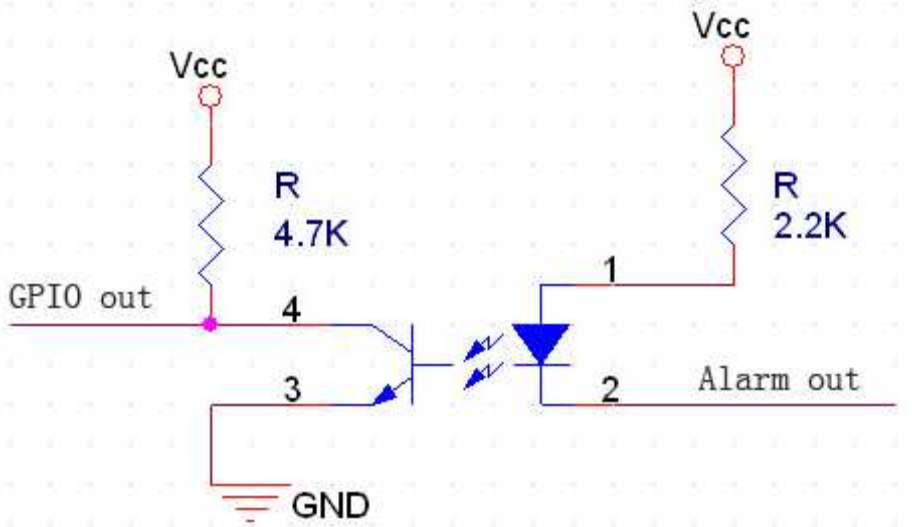
16CH



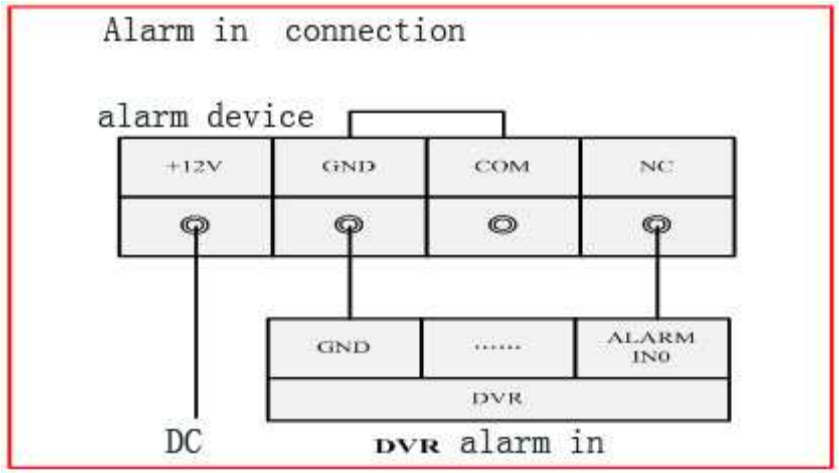
Item	Interface	Description
1	VIDEO IN	16ch video input
2	AUDIO IN	4ch audio input
3	V-OUT	1ch video output
4	A-OUT	1ch audio output
5	VGA	VGA monitor
6	NET	RJ45 for internet
7	USB/ MOUSE	First USB for backup or upgrade system of DVR；Second USB for mouse
8	ON/OFF	Power supply switcher
9	DC-12V	Power adaptor port
10		ALARM IN：4CH alarm input port RS-485：A, B
		ALARM OUT: N1 N2 for alarm output port, every channel connect C and O;COM port is for GND;

2.1.3 Alarm input port

8chanel alarm input, the mode of alarm input is no restriction (possible is normal open also normal close);
the GND alarm detector connect to COM under parallel connection (the power of alarm detector supply by external power supply;
the ground terminal of alarm detector join-up in parallel with DVR;
the NC of alarm detector connect with the input end (alarm) of DVR;
when you want to reset the remote alarm of triggered , the +12V power supply of alarm detector supply by DVR, for example, smoke detector.
When you select the external power supply, please share the GND with DVR;
Alarm input circuit:

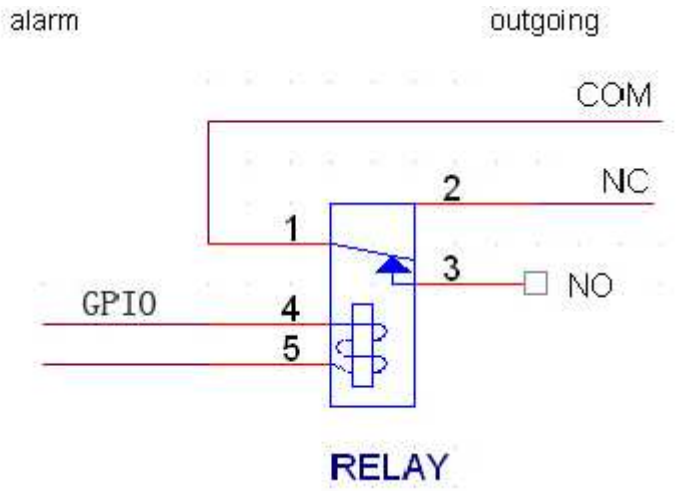


Alarm inlet connection:



2.1.4 Alarm output port

4 way switching value alarm output, selectable in normally open contact, also selectable in normally closed contact, the external alarm device should be need Vcc;



Chapter Three Products Introduce

3. 1 Operation instruction

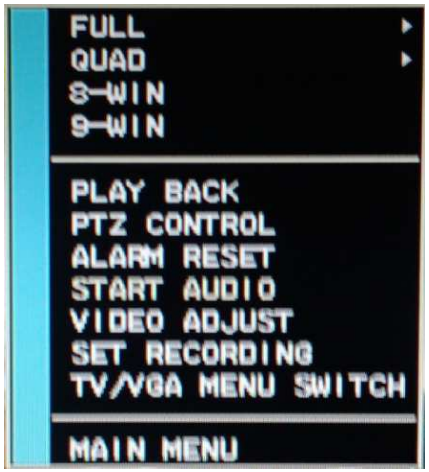
3.1.1 Remote control AND Front panel keypad

S/N	KEYpad Name	Operating instruction	S/N	Keypad Name	Operating instruction
1	【POWER】	Power ON/OFF	8	【OK】	This button is used as “enter”and“ok” key in most circumstances
2	【DEV】	Select DVR1,2,3,…	9	【SWITCH】	Switch capital letter/small letter/symbol input on soft keyboard
3	【MENU】	Access main menu	10	【⊞】	Switching of 1/4/8/9 Preview mode
4	【ESC】	Exit operation or enter upper menu Close soft keyboard Close current window Exit from current control Return to last menu Exit from PTZ control under preview state	11	【PTZ】	Access/exit from PTZ control under preview state
			12	【+/-】	Volume or number increase/reduction Select item of the list
			13	【SEARCH】	Search for playback
5	【◀◀】	Slow playback,1/2×, 1/4×, 1/8× and single frame play	14	【ALARM】	Alarm reset
	【▶▶】	Fast playback, 2×,4× and 8× playback	15	【0~9 10+】	Digital input Corresponding;

	【■】	Playback stop			Channel is magnified in full screen under preview state
	【▶/II】	Play / Pause	16	【FN】	Short cut
6	【▲.▼.◀. ▶】	Four-way to move the focal point in main menu, up and down to move in the normal window, to control pan driver to move in the PTZ control windows	17		
7	【REC】	To mode of recording	18		

3.1.2 How to use mouse of DVR (for right hand mouse)

1	Left key single click	To any function menu icon click the mouse left key into the menu
		To run the control point out operation
		Change again select frame or motion detection piece mode
		Click the assemble frame popping to pull down the list
		In the input frame, can select digit, character, lowercase, block letter, left click mouse on the keyboard of character input, that's. ← say move back, _ say blank

<table>
<tr><td rowspan="2">2</td><td rowspan="2">Right click mouse</td><td>Right click mouse, popping the shortcut menu, as follows;
 

。
while life view monitoring, popping short cut menu: multi picture mode, recording mode, PTZ control, clear alarm,enable listen into, video adjustment, recording control,TV/VGA Switch display,main menu etc short cut manner. Thereinto, the PTZ control and video adjustment
manner are set the video channel where cursor locates at that time, before setting, if the mode if multi picture, then the system can automatically switch to the correspondence single channel picture.</td></tr>
<tr><td>In the title bar, if you click right key of mouse wherever outside of the edit box and the button, it will close current window.</td></tr>
<tr><td>3</td><td>Double click left button</td><td>To run the ActiveX Control ActiveX special operation, For example, double click the certain item of record listed file, then the system will playback the segment
record video.</td></tr>
<tr><td rowspan="2">4</td><td rowspan="2">Dragging the mouse</td><td>Depress the left key and dragging the mouse, banding select Motion detection area, depress right key of mouse and Dragging, cancel the banding select area.</td></tr>
<tr><td>Dragging playback ProgressBar back and forth to dolly moves, to achieve the playback position adjustment. Dragging the audio and video regulation parameter bar dolly moves, to achieve the parameter adjustment.</td></tr>
</table>

3.2 Powering On

3.2.1 Boot-strap

If【POWER】pilot lamp off, please follow the operation step by step:

First step: if the power does not plug into, please plug into the power, then the DVR-4108 begin to start, by now, if the DVR-4108 still inactive, to enter the next step;

Second step: turn on the power supply of the DVR-4108 at the back panel, DVR begins to start.

If【POWER】pilot lamp to offer RED, press the 【POWER】key, DVR-4108 begins to start.

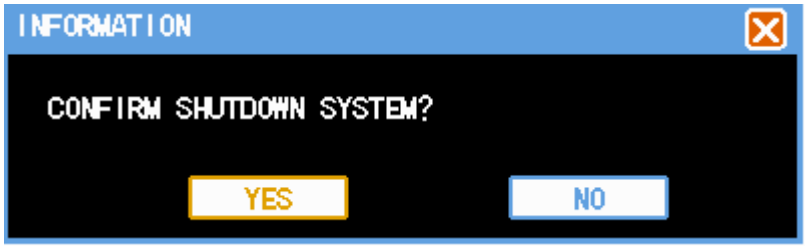
The video output mode of DVR-4108's the default setting is multi picture channel mode after starting the DVR-4108, if the time of start the DVR-4108 is in the Timing Recording Setting, the DVR-4108 will automatically to start the Timing Recording function, the corresponding channel's recording pilot lamp will be light, the DVR-4108 is normal operation.

If you do not install the hard disk drive in the DVR-4108 before turn on the power, after Login the system, the system will call attention to as follows;

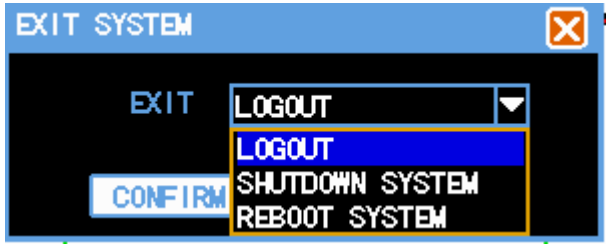
3.2.2 Shutdown

◆ **There are two safety mode for Shutdown**

A. Pressing the POWER key in 3 second, according to Shutdown warning to stop the all running of DVR-4108, then you can turn off the power key behind the DVR case.



B. Enter【Main Menu】→【Log Out】select【Shutdown system】.



◆ **Abnormal shutdown**

Through the rear panel to shutdown

During the DVR-4108 running, directly to turn off the power through the rear panel power switch, please avoid as much as possible to do it. (specially while the DVR recording).

Directly to pull up the power cable of DVR-4108

While the DVR-4108 running, directly to pull up the power cable of DVR-4108, please avoid as much as possible to do it. (specially while the DVR recording).

Caution: In some area, the power supply is irregularity, it will cause the DVR-4108 working not normal-operation, the DVR-4108 will be damaged in serious. In this surroundings, suggest select the stabilized voltage supply.

3.3 Enter System Menu

How to enter the Menu Mode

- Press【MENU】key, enter main menu
- Click【Mouse right key】enter shortcut menu

- Click【T-RSH】shortcut, enter playback menu
- click【REC】shortcut, enter manual recording operation menu
- Click【PTZ】shortcut, enter PTZ control operation menu

Introductions: you should input the user name and password when you login DVR system, the default user name is “admin”, and the password is “EMPTY”.

There are three default user, that’s “admin, user, default”, and the user and default’s password is “123456”. The user name “admin” is the top authority user in default, and the “default” is the low authority user in default, only for monitoring, playback, backup etc. authority.

Password security: you can try 5 times in 30 minutes, otherwise, the user name will be locked;

Remark: for safety, suggest to change the password after use the DVR-4108, put the additional user name and change the default user name, for the use setting please refer to Menu operation----User management.

Concerning the input method: except the front panel and remote control unit can be input, you also can input the character in the InputBox, single left click the mouse, the system will dropping the software keyboard.

3.4 Power-down and Revert

When the DVR run under Recording, Timing recording, Alarm Recording, if the power of DVR to be turn off or be forced to turn off, and turn on the power again, DVR will automatically save the recording before turn off, and automatically to revert the operating condition before turn off to work on.

3.5 Preview

After log in system of DVR, system will automatically directly enter the preview mode

In the preview picture, you can see the overprint date, time, channel name, if the date and time is not correct show on the picture, re setting the date. There is a alarm input mode icon. (the meaning of every kind of icon as following table)

Channel picture attention

1		When that channel recording, this mark will be showed on it	3		When there is a video loss in that channel, this mark will be showed on it
2		When there is a motion detection alarm in that channel, this mark will be show on it	4		The mark of alarm input mode
5		When the video be Dodging, this mark will be showed on that channel			

3.6 Recording operation

Customer can according to select the different kind of recording mode in this system. For the different kind of recording mode you set, the channel will be showed the mark on everyone channel.

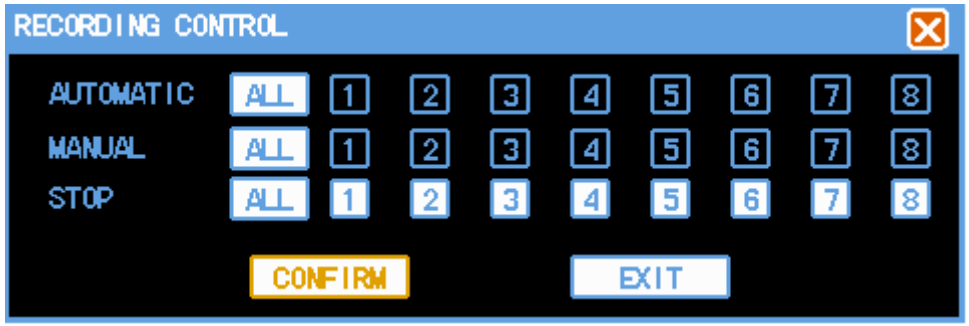
3.6.1 Manual recording

Note: Manual recording operational requirement the user should have “recording” permission. Please make sure the hard disk drive has been installed and it has been formatted.

1) Input manual recording operation menu

Single click right key of mouse or In main menu=> recording control can into manual recording operation menu. Under preview mode, press REC

key or on the Remote controller unit key into recording control operation menu, as follows:



2) The explanation of manual recording operation menu

【manual recording】 Priority level highest, no matter currently what status of every channel, after carry out the manual press, corresponding channel will be record common in progress;

【Auto recording】Setting channel recording by setting condition to record under Timing, Motion detection and Alarm in Recording Setting;

【Stop Recording】All video channel stop recording;

【All 】Possible to select all video channel recording or stop recording.

3.6.2 Playback video

There are two mode in video playback: One channel playback and four channel playback at same time.

One channel playback: Single click right mouse key in anyone video channel under Preview menu, select “Record Playback” in the popping menu, search the record file and playback in the popping recording file menu, then the record that selected will be play backed in that video channel.

Four channel playback:【Main menu】➔【Record Search】, click the icon of mark file in the red frame as follows;

Select the corresponding video channel to search, double click the record file to playback; then move the mouse to the Second video channel to search the record again, double click the record file and playback the record file in it; to do the same step mention above, you can playback four channel record file at the same time.

Toolbar of playback

Button	Description	Button	Description
	Playback/pause		Open the record file
	stop		Single video channel playback mode
	From quick playback, slow to normal play back mode		Four video channel playback mode
	Slow, fast		

	Sound on/off		Hide the toolbar
	Voice adjustment		Close the window menu

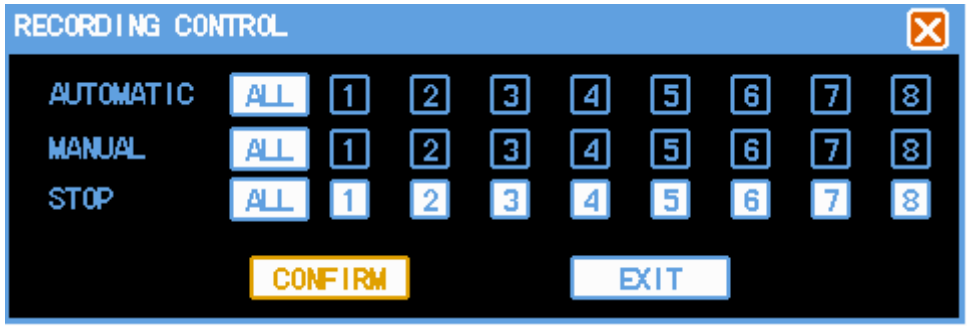
Note:

1) During playback the Playback Tool will show the file playback speed, channel, timing, playback speed etc. information in the Playback control panel;
2) Can't same time to select the Fast forward operation function in over 2 channel, only progress in anyone channel;
3) Can drag the Playback Speed toolbar by mouse;

3.6.3 Recording setting

Two mode in recording: Manual Recording and Auto Recording

3.6.3.1 Manual Recording

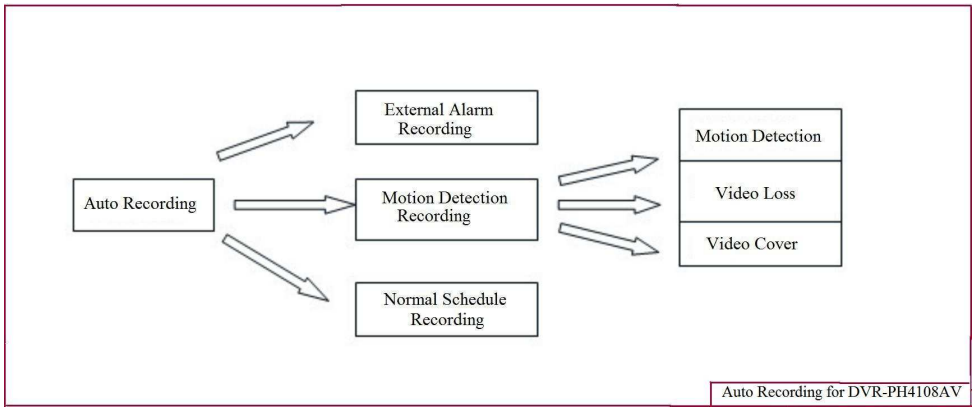


Click 【Main Menu】➔【Recording Control】, as above diagram,select anyone channel to recording, the White color means the recording function enable,Black color means disable;

Also can select "All" mark,if select it, then the recording function enable in all channel, click confirm.

3.6.3.2 Auto Recording

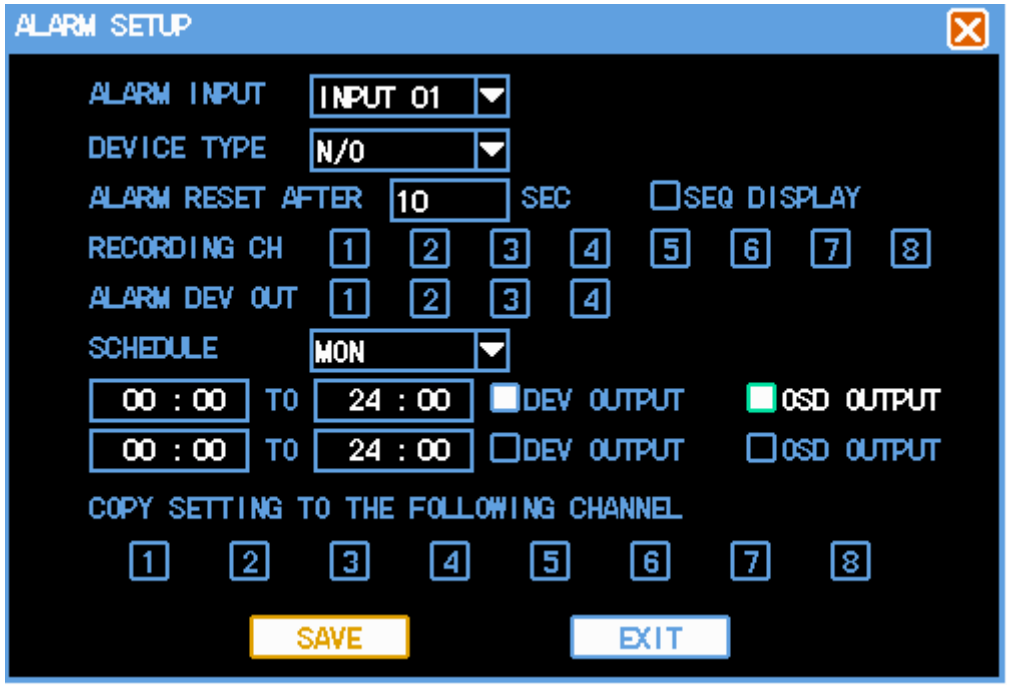
The Auto Recording function includes;



External Alarm Recording: Please find the details of it in 3.6.5 in this menu（Alarm setting and Alarm linkage Recording）

Normal Schedule Recoding: The default setting is 24hours non-stop recording after the First time to boot the DVR system. Login the menu, can set the Timing of DVR to record continually, that's recording in the timing that you select in sometime area, find the details setting in 【Main Menu】➔【System Setting】➔【Recording Setting】

Motion Detection Recording: Please find the details of it in 3.6.4 in this menu（Motion Detection）



Including the time slice of setting Normal Recording, Motion Detection Recording, Alarm Recording;

【Channel】/【Recording Schedule】Drop-down menu, select the corresponding channel Number/Week to set, select “ALL” can set the all channel function enable in onetime;

【Alarm Recording】Can record 3-5seonds video before the alarm event to occur (the timing depends on the capacity of video streaming) ;

【Time Slice】The means the recording mode of that channel currently in some time, “■” anti-display setting normal, alarm recording mode, can select single or multi in it, four time slice for setting selectable. Under some recording mode and the time in different time slice, you can duplicate to set, the time setting range is 00:00 - 24:00, after set the channel parameter, please press the save key to save the setting in the system.

Shortcut setting

1) Duplicate the same setting from one channel to another channel, for example, select channel one, after recording mode setting, click the copy icon into the others.
2) User should save the setting one by one after channel setting.

3.6.4 Video Detection

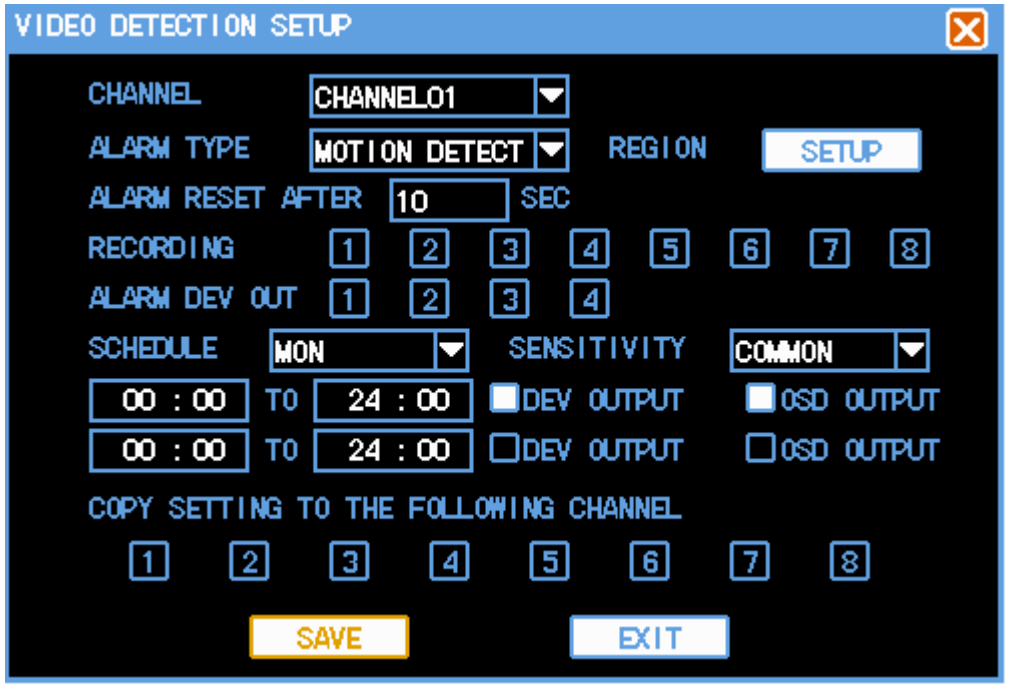
Note:

1) Select【Main Menu】➔【System Setting】➔【Video Detection】 to enter the setting menu;

2) During motion mode switch, there is not None Area and Sensitivity setting in video loss and video cover detection;
3) When there is a motion detection event in one channel, the symbol of motion detection will show in the channel;
4) No need to use FN function key when you drag the motion detection area by mouse, click the right key of mouse to save the setting before exit, the user press the SAVE to confirm before exit the Motion Detection menu.

1) VIDEO Detection

To excessive the video picture, when the system detect the motion event that the sensitivity fit for the preinstall, then motion detection alarm on.



Method of Operation:

【Channel】 Select what you want to set the motion detection function channel area;

【Alarm Mode】Select the motion detection mode: Motion Detection;

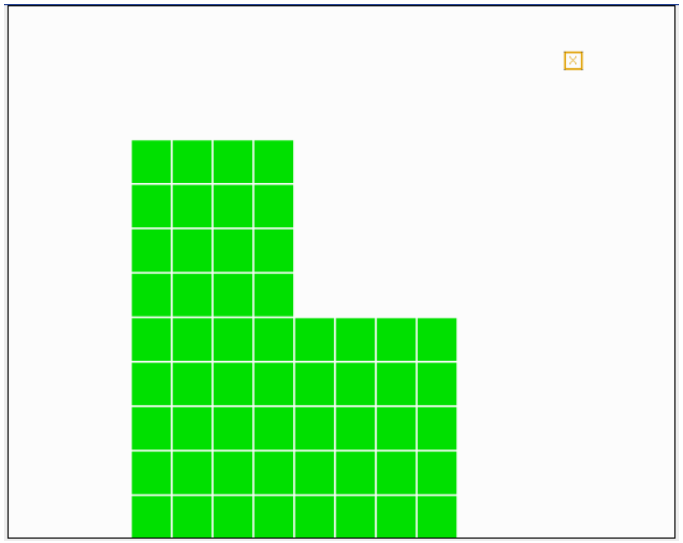
【Recording Channel】Select what you want to need the channel to recording (can repeat to select) , when there is a alarm, the system can automatically to start the recording in that channel, At the same time, should set the motion detection recording mode in 【Recording Setting】, set the Auto Recording mode in 【Recording Control】;

【Clear Time Delay】That means, when the motion event finish, the recording will be stopped in extending time, the time in Second, the range from 5-300;

【Channel Cruise】Anti-display■Setting when there is an alarm event, it will automatically to switch the single channel video that set the recording channel before. The switching time setting in the【Local Display】 setting;

【Region】Move the mouse to setting, press ENTER key to enter; the set region divide into 192 (16x12) region;

The border blocks representatives where the cursor locates, the green region is dynamic detection security region, achromatic color is open security region. Press <Fn> key to set on security or not, set the on security press direction key to move the green border grid to set the dynamic detection region, after setting, press <ENTER> confirm to exit dynamic detection region setting, if press < ESC> exit dynamic detection region then it will cannel the all security setting. When you exit the dynamic detection menu, must to press save key to save the setting, otherwise, the dynamic detection security function is disabling.



【Sensitivity】You can set them to: Highest, high, normal, low, lowest;

【Alarm output】When there is dynamic detection event, to start the linkage alarm output port to the external alarm device;

【Screen presentation】Invert signify show happen dynamic detection, it will show the prompting message;

【Time Slice】Can set the alarm output situation in two time slice, please do not set the repeat in the time slice setting, alarm output and prompting message option invert the corresponding channel option selector button, that's there is an alarm to start alarm output or prompting message in the selected time slice.

2) Video Loss

When there is a video loss situation, select【Alarm Output】and【Screen presentation】 that's the video loss message shows on the local screen.

Method of Operation:

【Channel】Select that channel what you want to set the dynamic detection region;

【Alarm Mode】Select detection mode: Video Loss;

【Recording Channel】That means it needs to record video (multi selectable) when there is a video loss, when there is an alarm, the system will automatic start to record in that channel. At the meantime, select the dynamic detection recording in the【Recording Setting】, select the automatic recording in【Recording Control】;

【Clear Time delay】That means after the dynamic, the recording will be stopped in some time delay, the time unit is in second, the range is 10-300;

【Channel Switcher】When there is an alarm in Invert setting, the single video channel will switch in that selected to start record channel, the time of channel switcher setting in【Local Display】setting;

【Alarm Output】When there is a video loss, start the linkage alarm output port to the external alarm device;

【Time Slice】Can set alarm output situation in two time slice, the time slice setting allow in repeat, the system according to the selected operational context to press or operate in the current time slice. That is if there is a prompting message in the current time slice One, no in time slice Two, then there is a prompting message in this time slice. Alarm output and prompting message selection invert, that's there is an alarm output or prompting message in the selected time slice.

3) Video Cover

When some body malice to cover the lens of camera, or due to the lighting caused etc. lead to the video output display in monochrome attic, that is unable to monitor scene video. Through the Video Cover alarm setting, it can effective to prevent phenomenon to happen, select【Alarm Output】and 【Prompting Message】.

Method of Operation:

【Channel】Select that channel you want to set the Dynamic Detection region;

【Alarm Mode】Select detection mode: Cover Detection;

【Recording Channel】That means it needs to record video (multi selectable) when there is a video loss, when there is an alarm, the system will automatic start to record in that channel. At the meantime, select the dynamic detection recording in the【Recording Setting】, select the automatic recording in【Recording Control】;

【Clear Delay】That means after the dynamic, the recording will be stopped in some time delay, the time unit is in second, the range is 10-300;

【Channel Switcher】When there is an alarm in Invert setting, the single video channel will switch in that selected to start record channel, the time of channel switcher setting in【Local Display】setting;

【Alarm Output】When there is a video loss, start the linkage alarm output port to the external alarm device;

【Time Slice】Can set alarm output situation in two time slice, the time slice setting allow in repeat, the system according to the selected operational context to press or operate in the current time slice. That is if there is a prompting message in the current time slice One, no in time slice Two, then there is a prompting message in this time slice. Alarm output and prompting message selection invert, that's there is an alarm output or prompting message in the selected time slice.

Explanation:

1.During copy the setting what you did before, only copy the same setting what you wan to set. That's say, the setting of video loss can not be ed to paste to video cover after copied（For example: the cover detection of Channel One only be copied to the others channel's cover detection, can not be copied into the other mode）, by parity of reasoning.

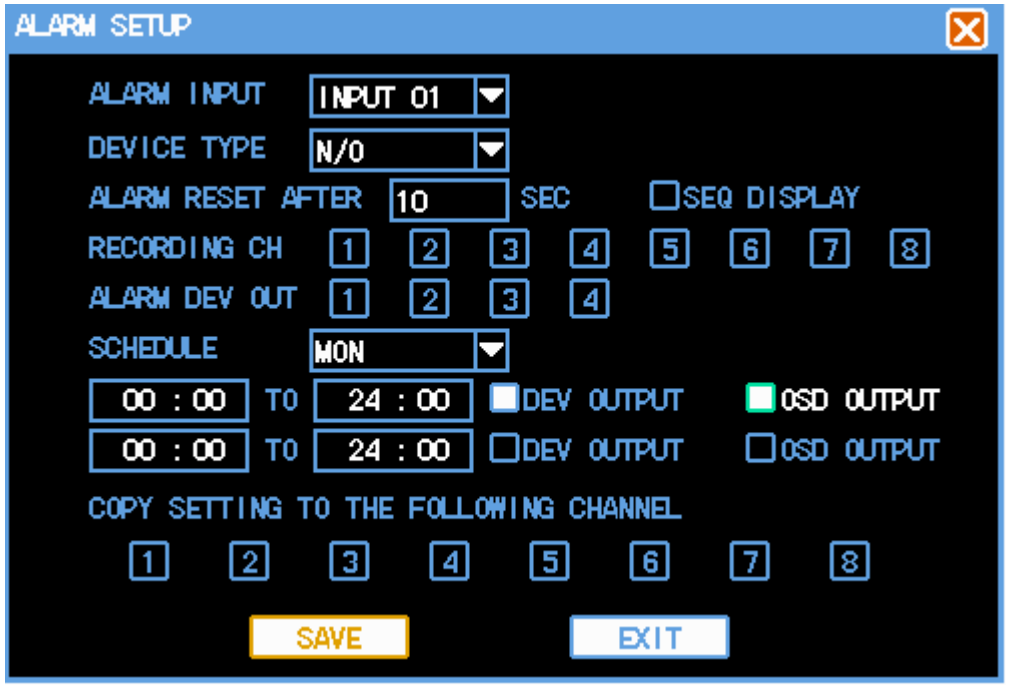
2. In the default operation process, according to the different setting of channel and detection mode, only to detect the mode of current channel in default operation. For example, default operation in cover detection menu, only set cover detection in default, the operation can not to set the other detection mode.

3.Caution: you can select the short cut copy function to set the same channel, but in video detection setting, that can not be copy to use the dynamic detection copy function region parameter, because there is not same in everyone channel video.

3.6.5 Alarm setting and alarm linkage recording

Details setting in【Main Menu】➔【System Setting】➔【Alarm setting】

User should separate to save after to everyone channel setting.



【Alarm Input】Select corresponding alarm channel Number;

【Device Mode】Select normal open/normal close (voltage output);

【Channel Switcher】Invert■setting when there is an alarm event, due to select start to record the channel progress to single channel switching display, select the switching setting time mode in the menu【Output Mode】;

【Recording channel】Select the require recording channel(repeat selectable), when there is an alarm event, the system will automatic to start that channel to record. At the same time, select the dynamic detection recording in【Recording Setting】, select the automatic recording in【Recording Control】;

【Alarm Output】Alarm linkage output port (repeat selectable) ,when there is an alarm event, can be linked the corresponding alarm output device.

【Clear Time Delay】Select corresponding time delay (5-300, the unit in second) ,after clear the external alarm, system automatic to delay the corresponding time, then close the alarm and linkage output;

【Prompting message】Show the prompting alarm message in the local DVR;

【Time Slice】Can set alarm output situation in two time slice, the time slice setting allow in repeat, the system according to the selected operational context to press or operate in the current time slice. That is if there is a prompting message in the current time slice One, no in time slice Two, then there is a prompting message in this time slice. Alarm output and prompting message selection invert, that's there is an alarm output or prompting message in the selected time slice.

3.7 Backup recording file

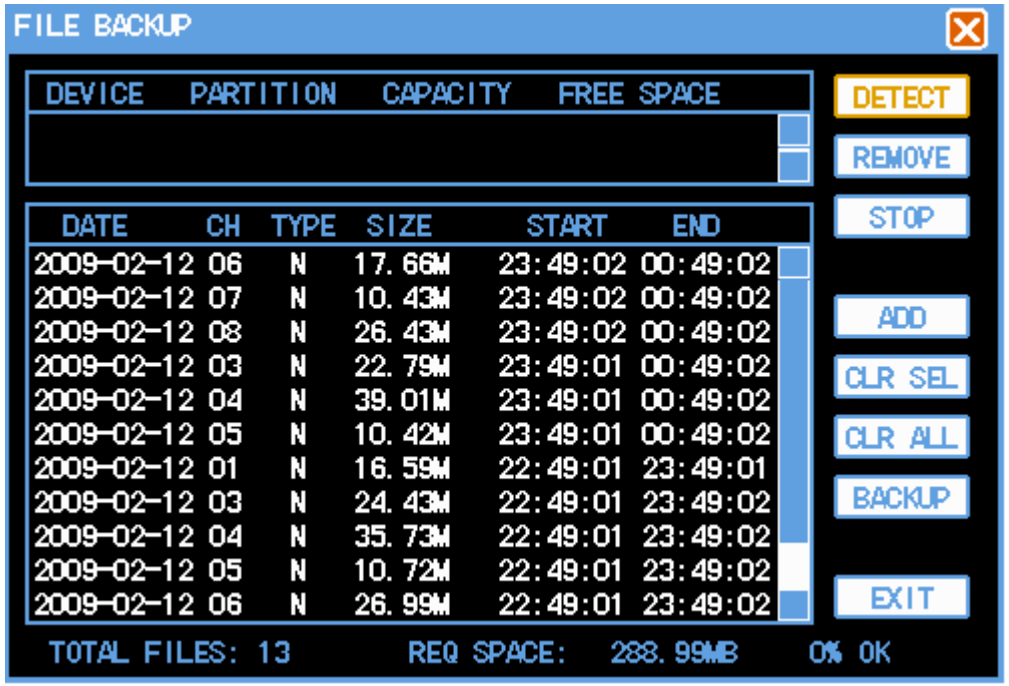
The backup of Standalone DVR can be by SATA DVD-R/RW, USB DVD-R/RW, USB storage device, download through LAN etc.
First to introduce the USB storage backup operation, please find the details of it in the LAN client operation download backup through LAN.

3.7.1 Detection device

The backup device are USB DVD-RW, pen drive, mobile hard disk drive etc. devices, it will show the detection device in the file backup device. And show the total storage file capacity.

【Detection】Click Detection button, if use the USB backup device in the USB port, then show the display device mode, partition in the above list box;

【Remove】Click the Remove button, the installed mobile USB device will be uninstalled, the information of device will be clear in the list box;



3.7.2 Backup operation

【Add】Click the backup dialog box ”Accession ” button, popping “Recording Searching” . Searching the DVR record file according the time, channel,

searching mode etc. information, searching information show in the dialog box. One or more file to add selection in one time, after process, the file will be showed in the “file backup” diagram dialog box that the file need to backup.

【Delete】You can delete the one or more file in the “file backup” dialog box file list frame, the operation will be delete the content list only, and do not delete file;

【Clear】Clear the content list in the dialog box;

【Backup】To backup the all file in the dialog box into the appointed backup device, before the backup operation, please confirm the selected backup device, and it has enough space to backup.

During the backup operation, you can process to the other operation, after the backup furnish, it will automatic to show the successful information. The backup task cannot be canceled.

You can check the backup video file in your personal computer, the format of video file is: channel name + year/month/day/hour/minute/second.lvf

3.8 How to control PTZ

3.8.1 Method of connection

1) connect RS-485 port of speed dome camera with he DVR PTZ port ;

2) connect the video cable of speed dome with the DVR video input jet ;

3) turn on the power of speed dome after connected mention above;

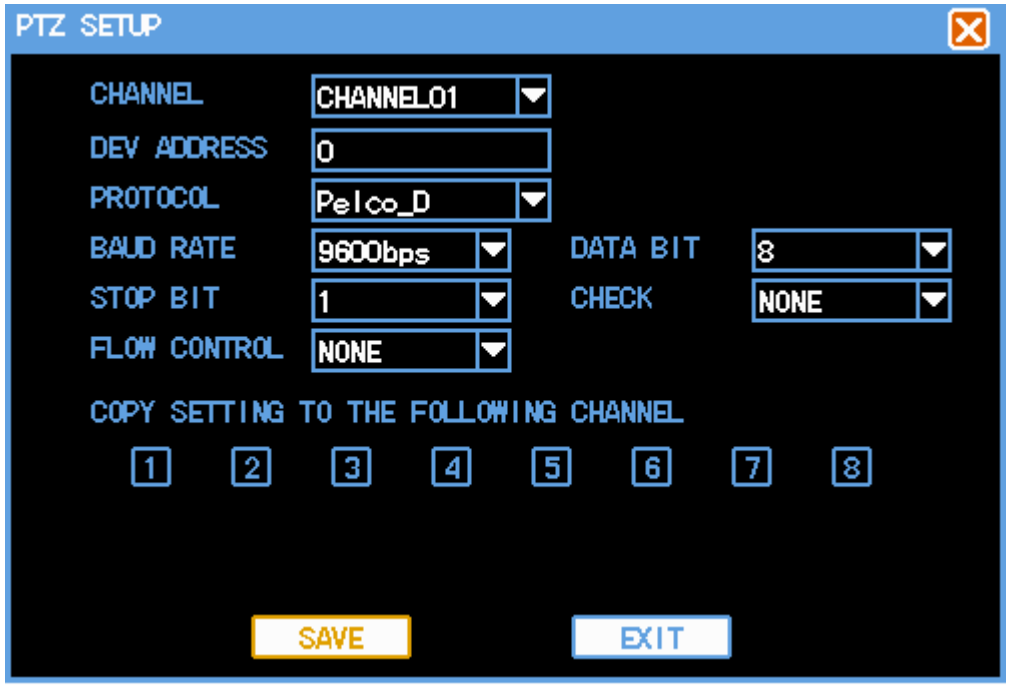
3.8.2 The method of PTZ control operation

1) the current video channel must switch to that channel camera will be controlled in the video channel;

2) finish setting the ID of speed dome;

3) confirm if it is correct or not from the cable A,B of speed dome to the cable A,B of DVR, (please see the details of in chapter II: 2.1.2)

4) process corresponding setting in DVR menu, details setting in 【Main Menu】➔【System Setting】➔【PTZ Setting】.



【Channel】Select the connect channel of camera;

【Protocol type】Select the corresponding brand model protocol of speed dome camera;

【Address】Setting the corresponding ID of speed dome camera;

Caution; the ID and protocol setting of DVR should fit for the speed dome camera, other wise, you can not control the speed dome camera through RS-485 of DVR;

【Baud rate】Select the corresponding baud rate of speed dome camera, can control to the corresponding channel PTZ and camera, the default setting is 9600;

【Data bit】Default is 8;

【Stop bit】Default is 1;

【examination】Default is None;

【Flow-control】Default is None;

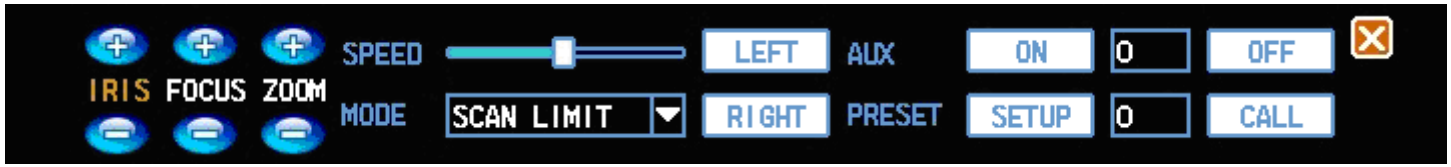
PTZ setting should be saved in everyone channel after setting.

3.8.3 PTZ control

To control the 【direction】,【speed】,【aperture】,【focus】,【Iris】,【cruise control】,【cruising setting】,【scan boundary】,【back light Compensation】,

【auto scan】Of PTZ, coordinate with the direct key during setting;

There are two different kind of control interface in PTZ control, in preview mode, click right key of mouse in everyone channel, the shortcut menu will popping the “PTZ Control” selection as follows.



【Assist On/Off】Can call the user-defined assist function, for example, lighting, windshield wiper etc;

【Preset setting】Preset point setting;

【Call preset】Call the preset point setting;

The function call display menu interface in【Main menu】➔【PTZ control】 as follows;

The setting of pan driver step length through the inferior level slid bard of direction key to adjust. Major for neck rein operation, the step length is more and more longer then the rotational speed follows;

Direct to single click the key of , of zoom, focus, IRIS, adjustment for zoom, definition, illumination.

The rotation of pan driver can supports 4 direction, there is Up, Down, Left and Right.

The 【Boundary Scan】setting move to control the JIONT of speed dome, left margin setting, horizontal shifting move to the another point, to set the right margin.

【Auto Scan】after the running Auto scan, can control the it running in Auto Scan in the left and right boundary of speed dome camera.

3.9 3G module

or this function, first enter “3G DIAL ”(MAIN MENU→ADVANCE→3G DIAL) and then start to setup，as Figure1, the interface shows as Figure 2, Figure 3.

“3G DIAL” have two modes with automatic and manual dialing, the operation follows as below.

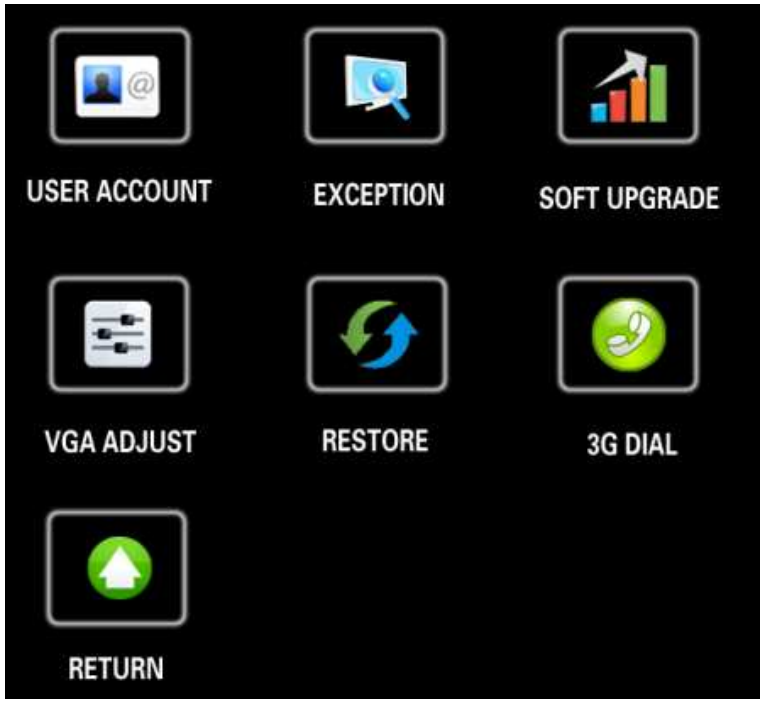


Figure1

1. Automatic Dialing

Select the Automatic Dialing in the interface of Figure 2, fill the right information according to the operator where the 3G card belongs to and the 3G referred guide, It includes IPS names, AP, dial-telephone, ID and password, the interface shows as Figure 3 (some IPS once be chosen, the other relative information has been already done, so you needn't fill any more, click "SAVE" directly). Then click "Save" directly. After having detected the 3G signal when DVR start, the system will dial up automatically.

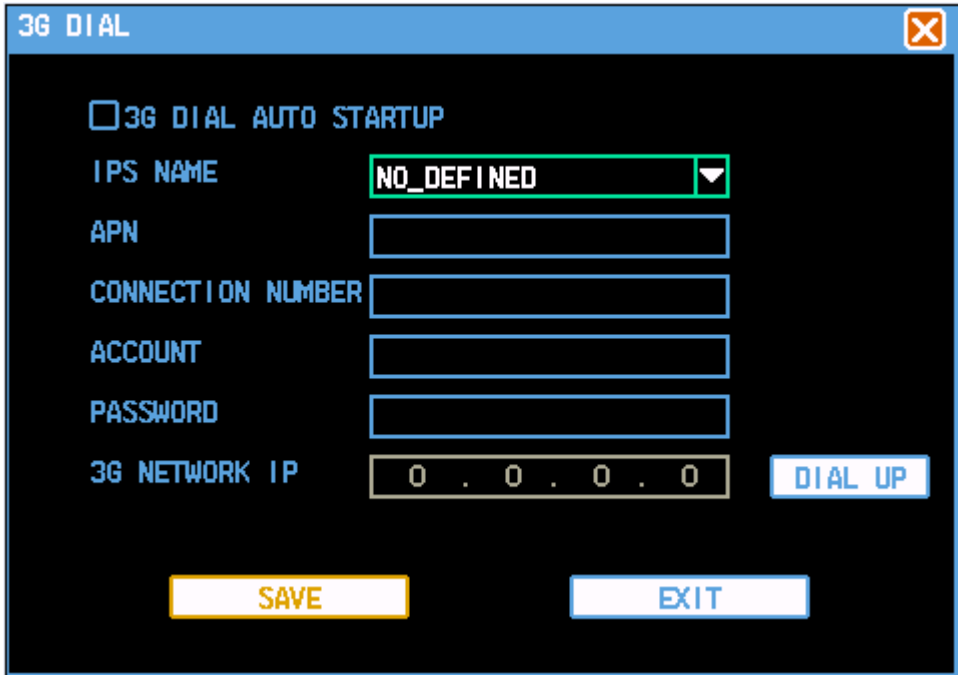


Figure2

2. Manual Dialing

In the interface of figure 2, users would fill the right information in the menu bar as same as

Automatic dialing and click "SAVE". Then click "Dial-up" after saving successfully (The referred information would be saved still after the DVR restart, but you should click "Dial-up" again).

In these two modes, if the dial-up want success, first you should make sure that the 3G card is available. Since the 3G signal has been existed, the related menu bar will show the correct IP address; if failed, system will popup a window to show the wrong information.

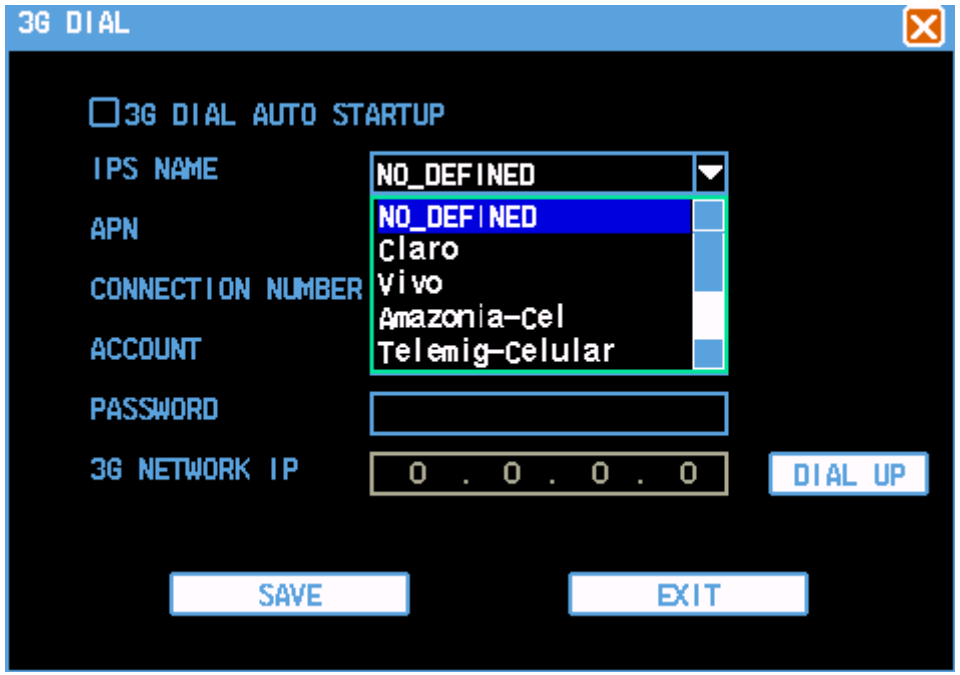

3G DIAL
3G DIAL AUTO STARTUP
IPS NAME
NO_DEFINED
APN
CONNECTION NUMBER
ACCOUNT
PASSWORD
3G NETWORK IP
0 . 0 . 0 . 0
DIAL UP
SAVE
EXIT
NO_DEFINED
Claro
Vivo
Amazonia-Cel
Telemig-Celular

Figure3

Chapter Four Menu Operation Guide

4.1 Menu Navigation

Main Menu	First level menu	Option remarks
Play Back		To achieve the function of record file searching and playback, the listing of searching according to the record mode, channel, timing, display the result situation in listing, process the playback after the record file select ed. R-Normal recording, A-Alarm recording, M-Motion detection recording
System information	**Hard disk drive**	The interface position of SATA hard disk drive, the total capacity, surplus capacity, the start-stop recording time information of all hard disk drive and everyone. Mode: read-write drive, read-only drive etc.
	Log	Display the log of system important event, and record the log appointed.
	version	Display the property of system hardware, software version and the day of release
	Online user	Check the information of on line user
System Setting	**System setup**	System time, preservation mode of record, the DVR model etc. basic parameter
	Encoding setting	Encode mode, bit rate, quality parameter etc. setting of audio and video,
	Recording setting	The timing setting includes the timing recording, dynamic detection, external alarm event; The duration of everyday timing operation in one week(recording, receive external alarm event, running dynamic detection), the every mode can be set in two different kind of duration in everyday
	PTZ setting	Parameter setting of PTZ

	Network setting	The parameter setting of network ID, video data transmission protocol etc. and the function of PPPoE, DDNS.
	Alarm setting	The parameter setting of for external alarm output and record response.
	Video detection	The dynamic detection parameter setting of sensitivity, region and pre-processing (alarm output and start recording) , video loss, blank screen detection etc.
	Local display	The parameter setting of output menu and monitoring switching Caution: after the menu modify output attribute, the presentation will be go to take effect after system reboot.
 Recording Control		On or Off the channel recording
 Hard disk drive management		The operation of Hard disk drive management, clear the data in hard disk drive; Attention: modify property of hard disk drive, it will take a effect after the system reboot.
 Alarm control		PTZ Advanced Features Alarm input, output function
 Advanced	**User account**	The user management function
	Exception	
	System upgrade	The item need to system maintenance setting, upgrade function

Options	**Output adjustment**	Adjust the output parameter of VGA
	Revert default	According to select revert all or part of it into default delivery setting Attention: user account setting is not the recovery function
 File backup		Detection backup device Listed the detected device, display the name, mode and capacity etc. Backup the record file into the backup device.
 Turn off system		Log off, turn off, reboot system operation

4.2 Menu Operation

Main menu interface introductions

The main menu function includes recording search, system information, system setting, recording control, hard disk drive management, alarm control, Advanced Options, file backup, turn off system.

Explanation:

The all-following sub-menu setting should to take effect after save, otherwise, the setting invalid.

The checkbox be filled means that someone function sleeted, not be filled that means no select some one function.

4.2.1 Play Back

To achieve the recording search and playback function, the listed searching according to the recording mode(all, normal, alarm, dynamic detection), channel, timing to search, please see the result listed table(please see chapter III 3.6.2)

4.2.2 System Information

Sub-system menu: hard disk drive information, log information, version information, on-line user.

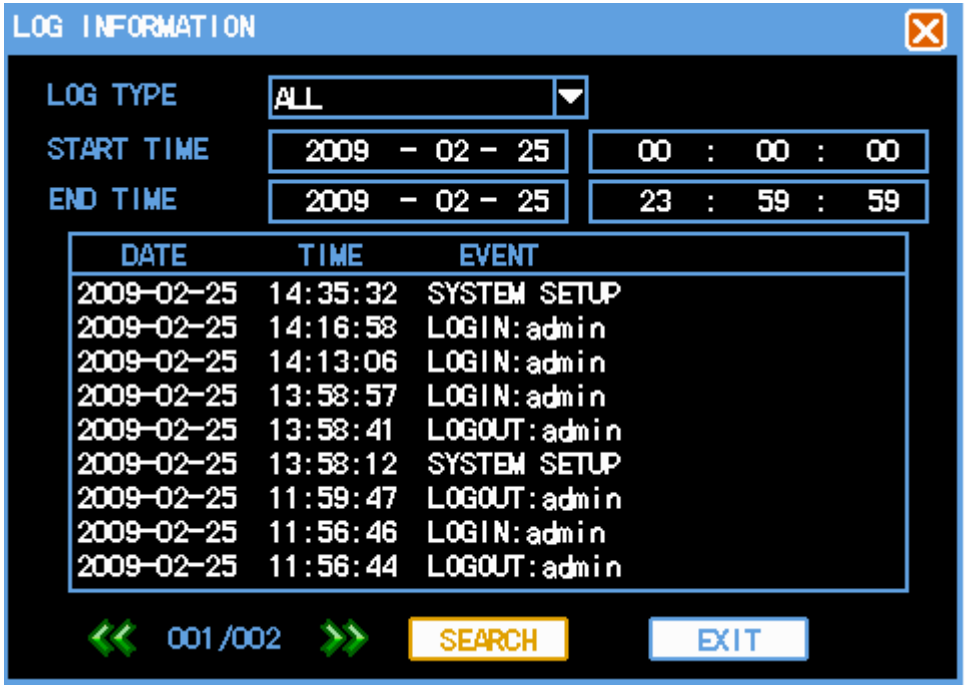
4.2.2.1 Hard Disk Drive information

Display SATA hard disk drive interface status, mode, all hard disk drive and everyone hard disk drive interface position, total capacity, available capacity etc. information.

4.2.2.2 Log Information

Show the system log, convenience of customers to see the login log.

The log message type can be divided into system operation, setting operation, data management, alarm event, recording operation, user management, clear log file, file operation, setting the time slice of log what you want to search, directly to press Search button, system will display the record log listed, press Page up or Page Down key to search the page turning operation.



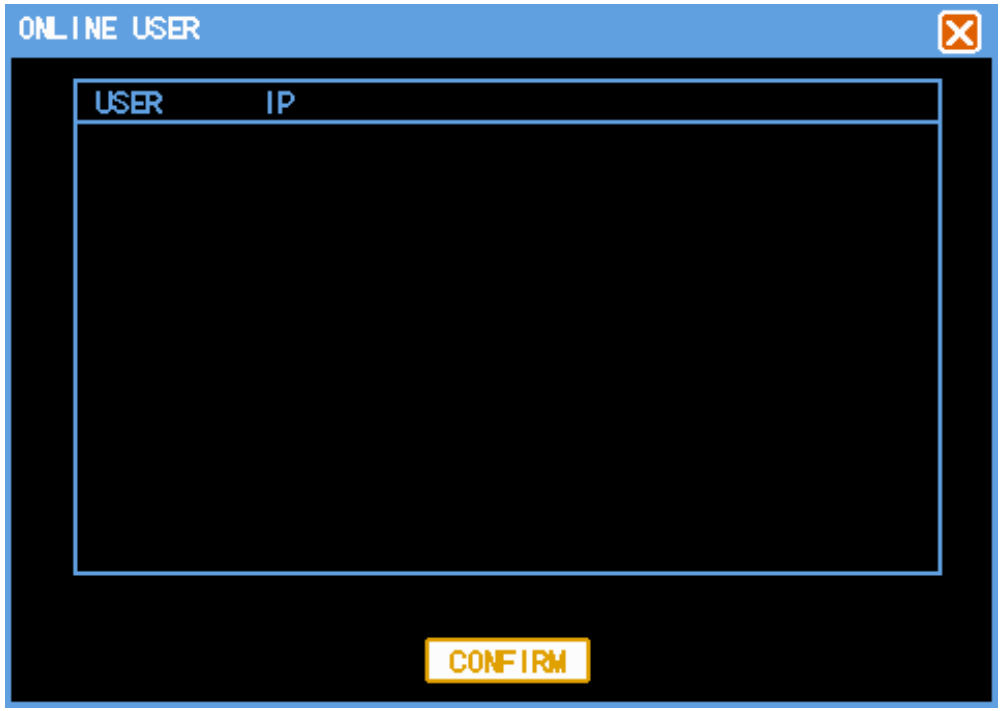
The user who has the limits to rights can clear the date log in the system.

4.2.2.3 Version Information

Display the system hardware characteristic, software version and release date code etc information.

4.2.2.4 Online user

To see the LAN user information who log in the local DVR.

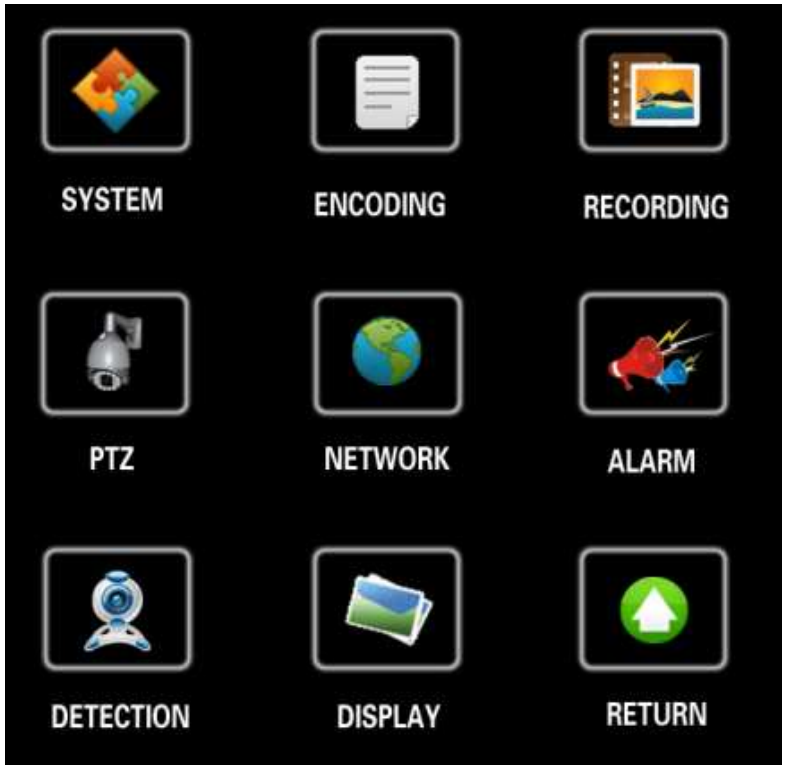


4.2.3 System Setting

Sub-Menu:【System Setup】,【Encoding Setting】,【Recording Setting】,【PTZ Setting】,【Network Setting】,【Alarm Setting】,【Video Detection】,【Local Display】etc. menu.

Please see the details of【Recording Setting】,【PTZ Setting】,【Alarm Setting】,【Video Detection】in Chapter III.

Attention: System setting must login by who hold the limits to rights



4.2.3.1 System Setup

【System Time】Be used for modify the current system date and time of DVR, click the right hand side button to save the modification;

【Date Format】Select the date display format, including year/month/date, month/date/year, date/month/year etc;

【Date separator】There are three different kind of selection in it, "— " " / " "." , if you select "." , then the system time will display as: 2008.07.20

【Time Format】Including 24 hours and 12 hours;

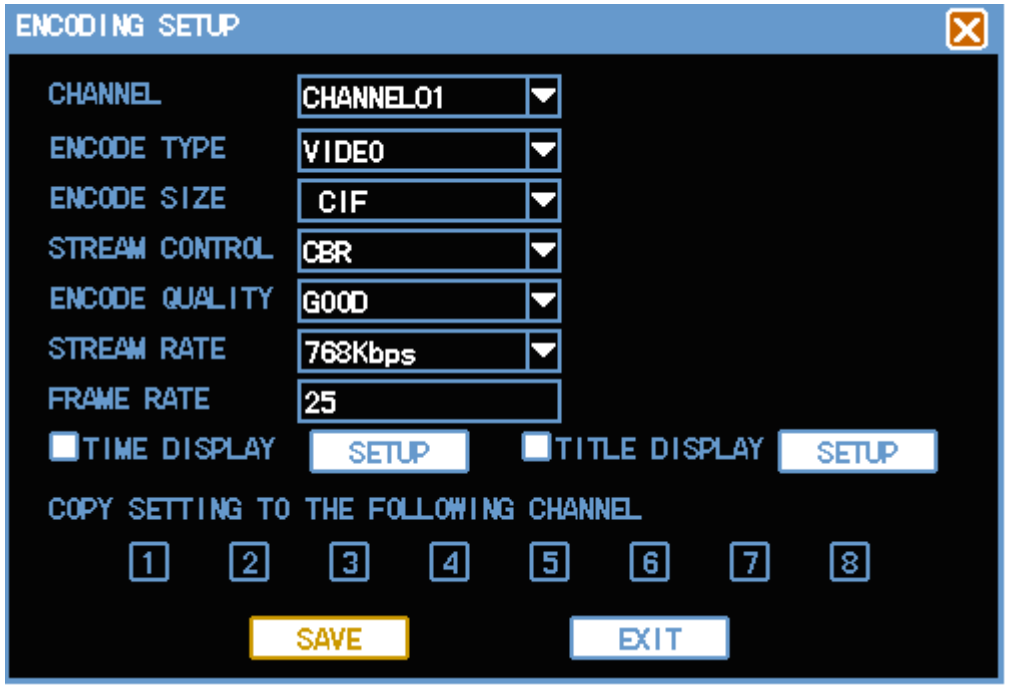
【Recording Length】Can setting the duration of everyone recording file, default is 60 minutes;

【Identification Number】Be used for the situation that use one remote controller unit to over one DVR, only press the ID of remote controller unit on it and the same corresponding DVR ID number, so, you can control the DVR;

【Video System】According to setup setting different system;

【Menu Standing by】Possible to set the menu standby-time 20-60second, 0 is not set the standby-time, if you Setup time, behind that time slice, system automatic log off the current login user, if the user wants to operate menu, must to login again.

4.2.3.2 Encoding Setting



【Channel】Select channel Number;

【Encoding Type】Select “audio & video” then the recording file will be audio and video composite streaming, select “video” the streaming will be video only;

【Encoding Size】CIF/Half D1/D1;

【Streaming Control】Including fixed bit rate, dynamic bit rate;

【Encoding Quality】6level video quality, they're best, well, good, middle, worst, bad;

【Code Rate】Max 1 Mbps, Min64Kbps;

Caution: when the code rate control set into dynamic bit rate, the default setting will be the upper limit in the 【Code Rate】;

【IP Gap】From 0 to 255 adjustment to continues, 0 means full I frame pattern encoding;

【Frame Rate】1fps to 25fps in PAL, or 30fps UNCAL;

【Default】Channel is the First channel, encoding type is video, resolution is CIF, streaming control is dynamic code rate, the code rate upper limit is 512Kbps, frame rate is 25fps;

【Region Override】Invert, press the appear setting button and cover type selection, enter the corresponding channel video, user can select any size area to cover by mouse, anyone can not monitor or playback the area that has been set the cover area before;

【Time Overlap】and【Character Overlap】Overlap everyone channel encoding, there are time and channel title overlap, can set if you want to overlap where the time and channel overlap in the encoding data, single click the setting button, drag the time title or channel title to good place. If overlapped, the time and channel message will be display on video file when you playback the record file.

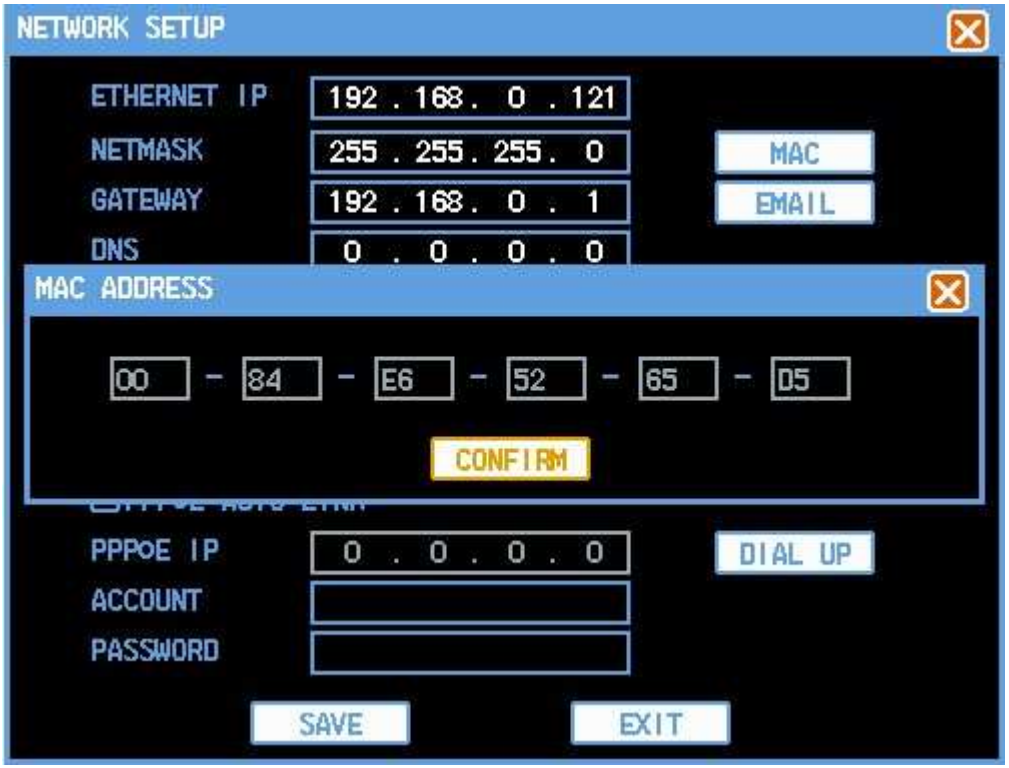
4.2.3.3 Recording Setting

Please find the details of it at Chapter III 3.6 (Recording Operation).

4.2.3.4 PTZ Setting

Please find the details of it at Chapter III 3.8 (PTZ Control Operation).

4.2.3.5 Network Setting



【IP Address】Press Up/Down/Left/Right key or input the corresponding numeric key to modify the IP address parameter value (the IP address setting can be set in this setting item), then set the subnet mask and Default Gateway of the corresponding IP address;

【Server Port】The general default is 7777, according to set the port under the user actual-need (remark: the server port 7777 preserve for UDP port, please do not configure for the others);

【HTTP Port】General default is 80;

【Start Multicast】Start Multicast network transmission modes, turn on the multicast function nee to set the corresponding multicast address and port;

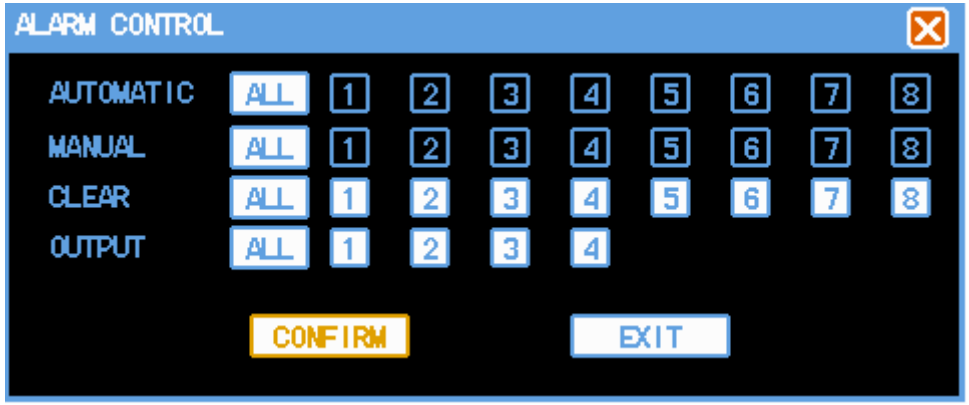
【Start DDNS】Via DDNS server, it compatible with DYNDNS.ORG, NO-IP.ORG, support www.3322.org DDNS server;

【Start PPPoE】Input ISP (Internet Service Provider) user name and password provided by PPPoE, reboot the system after save the setting. After boot the DVR, system will automatic to setup the PPPoE network connection, after successful setting, the IP of 【IP address】will be modify automatically achieved the Internet dynamic IP address;

Operation: After PPPoE dialup successfully, please check the IP on【IP Address】, achieved the currently IP of DVR, then access the IP of DVR through client.

4.2.3.6 Alarm Setting

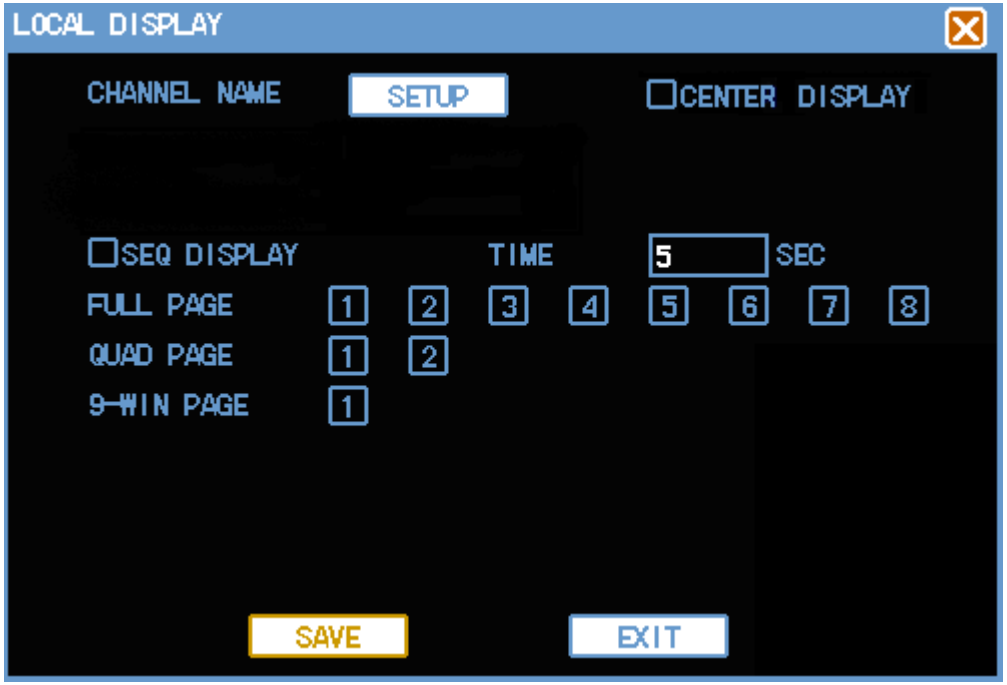
Set alarm output port, Invert ■ that means selected, press confirm button to save and exit, press cancel button to cancel and exit, manual to turn On/Off the corresponding alarm output port.



4.2.3.7 Video Deteciton

Please find the details of it at Chapter III 3.6.4 (Video Detection).

4.2.3.8 Local Display



【Channel Name】Press the channel name modify button, enter the channel name menu, can modify the name of channel, during modify the channel name in local, the WEB or client do not update the new channel name immediately follow the local DVR modify, need to open the channel name to upgrade the channel name in WEB or client;

【Window Color】According to the user favor to choose the background color and transparency;

【Transparency】There are three type for select: 25%, 50%, 75%;

【Time Overlap】、【Channel Name Overlap】Status invert■marking, display the system date time and channel number in the monitoring video;

【Start Switching】Invert signify Start Switching function;

【Switching Gap】Setting switching time, switching blanking time is 5-120 second, the switching video including single video and quad video. The 8 selected video frame signify the channel of switching in the single frame, the two selected switching video frame has four frame

video in one bar (1, 2,3,4 channel is First page, the others is Second page), the single and quad video frame can be switched at the same time, if you selected 1,2,5,7 in single video frame, at the same time, sleeted quad video frame in the Second page, when there is a switching, it will First to display in spacing 1,3,5,7, then display the quad video frame in the Second page.

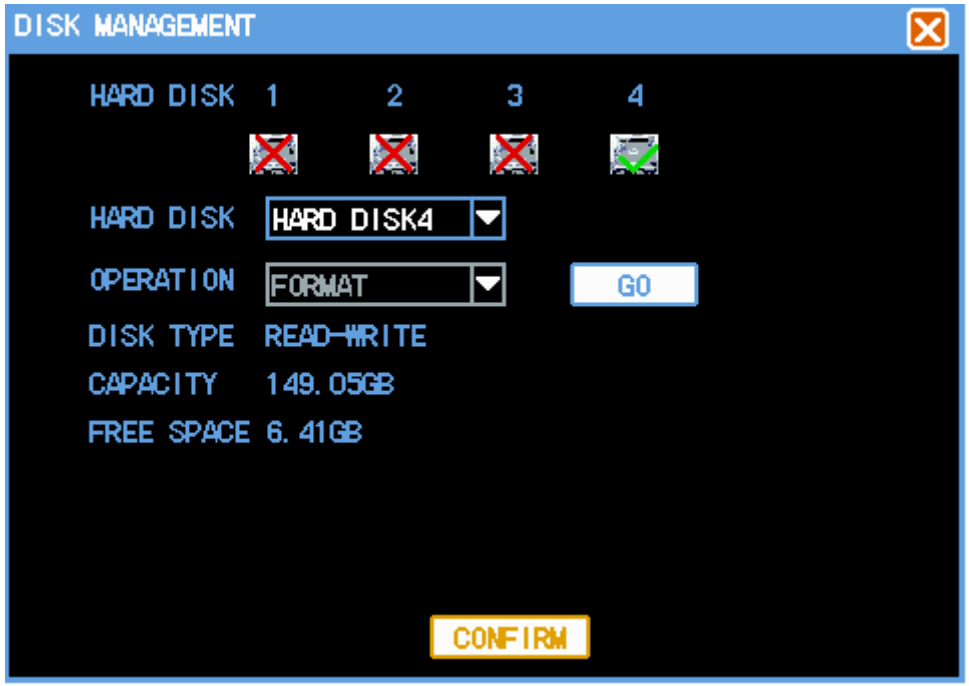
4.2.4 Record Control

Please find the details of it at Chapter III 3.6.3 (Recording Setting).

4.2.5 Hard Disk Drive Management

Host hard disk drive setting management, enter 【Main Menu】➔【Advanced Options】➔【Hard disk drive management】.

The following pictures show the properties current hard disk drive: type, status, total capacity, capacity, available capacity. The red cross mark means there is not hard disk drive be connected to DVR, the yellow cross mark means there is a connected hard disk drive but it should be formatted, green hook means the hard disk drive can be used. Operate to format the all data on the hard disk drive, Press Execution button to operation, after finish, press confirm button and the system will presentation should reboot the system for confirm.



After formatted hard disk drive, the file format is ext3.

4.2.6 Alarm Control

Please find the details of it at Chapter III 3.6.5 (Alarm Setting and Alarm Linkage Recording).

4.2.7 Advanced Options

The Advanced Options including menu: hard disk drive management, user account, system maintenance, output regulation, Revert Default.

4.2.7.1 User Account

Management user account properties

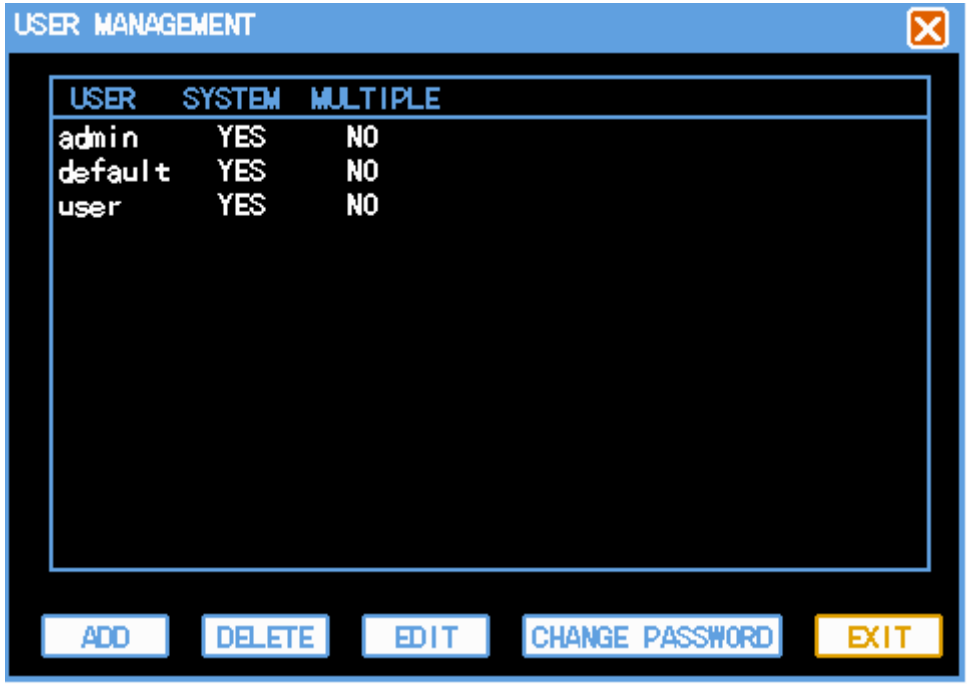
The user name max character size is 8 character, the beginning and the end of the string is bland invalid, it can not be blank in the middle. The legal character: letter, numeral, not allowed to use the other character symbol.

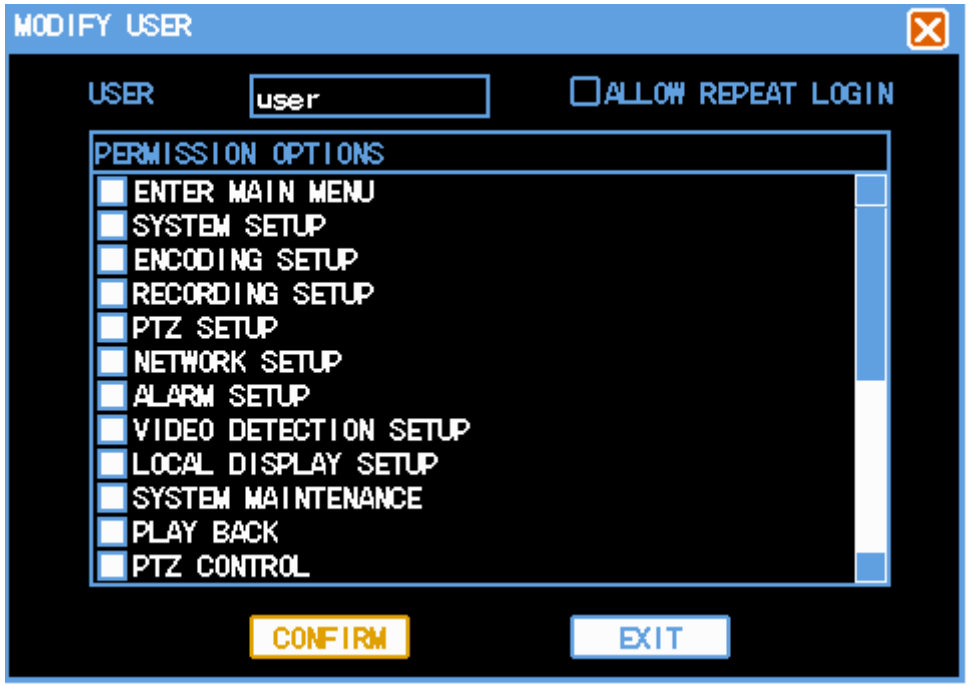
The user quantity max is 20pcs, the user can be added in user-defined, but the name of user can not be same repeat, the everyone user name can be modified permission by admin, the other user name can permission modify the password themselves;

Modify password: permission to modify the password of user name, select user name, input the new password in the new password and confirm the new password again. Press save button for confirm the password modification. The password can be set from 1-8pcs, the password can not be in blank at the beginning and the end, the middle allow in blank. The legal character: letter, numeral, not

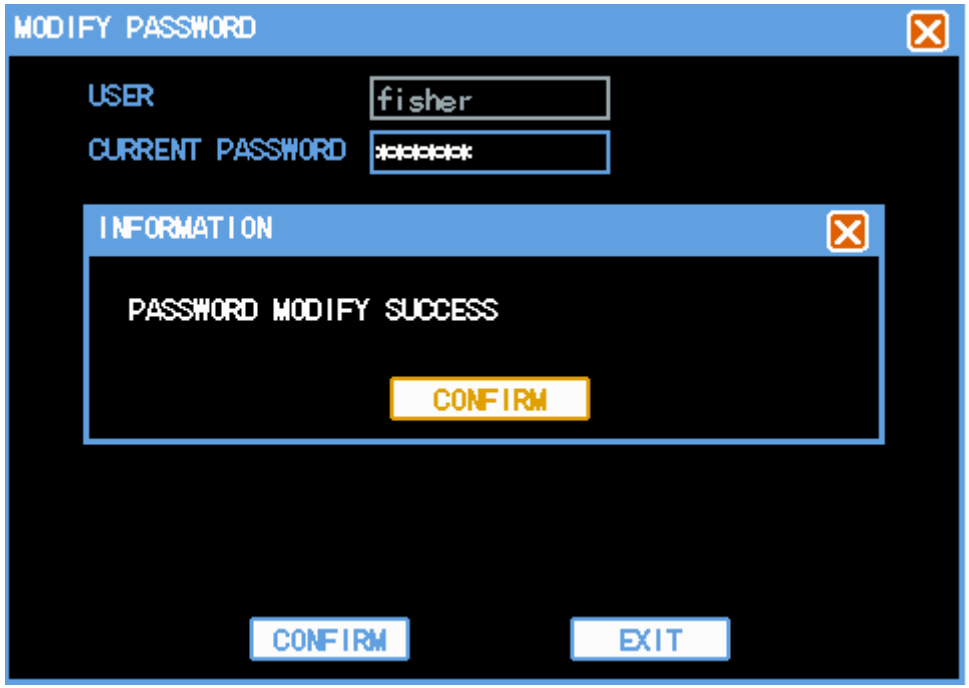
allowed to use the other character symbol.

Caution: The current password means the user logins





Add user: add user name in group and set the user permission control. Enter add user menu interface, input user name and password, select it which group does belongs to, and select is it multiplex user or not. Multiplex means that user can be used at same time, the user name can be used by some client at same time, “■” means selected.



There are 3 user name admin,usrer,default in initialization, admin is the highest permission in delivery default setting, and the password is 666666,and the default user name is low permission user under delivery default setting, only can monitoring, playback, backup permission etc.

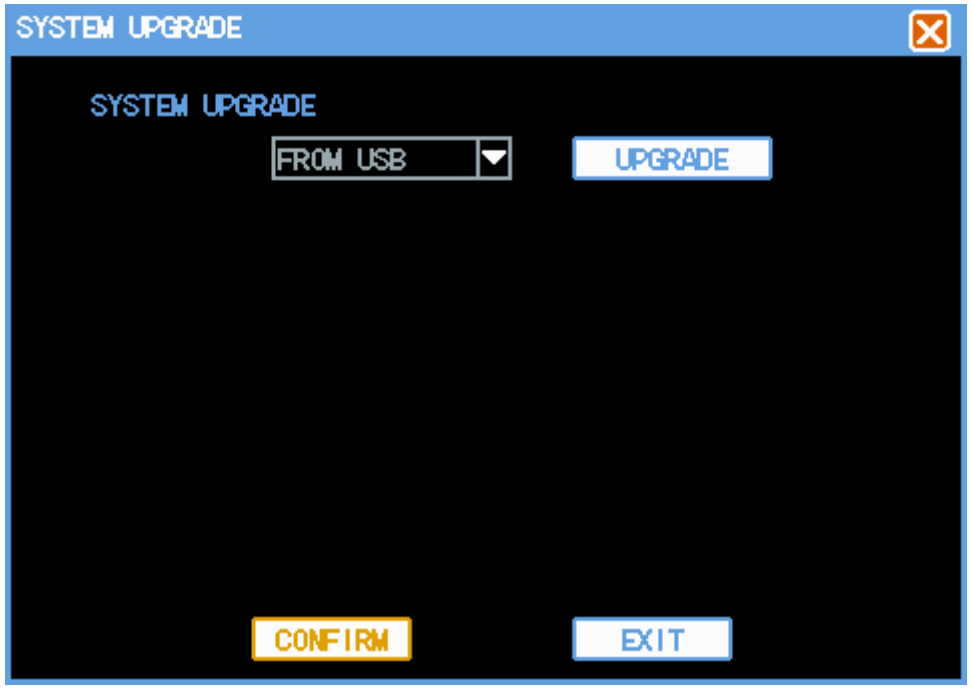
Default：this user is for system internal use, can not be deleted. When there locates “no user login” situation at local DVR, system will automatic to log in under this default user name. user can according to modify the permission of this user account, accomplish the operation of some no need to login. The other user who have account permission can modify the permission of Default, that is, user can use this function when there is not user login DVR, For example, if you want to view some video channel when there is not user login, you can select the permission in that corresponding video channel in Default account, scalable setting the others permission setting.

4.2.7.2 Exception

4.2.7.3 System Upgrade

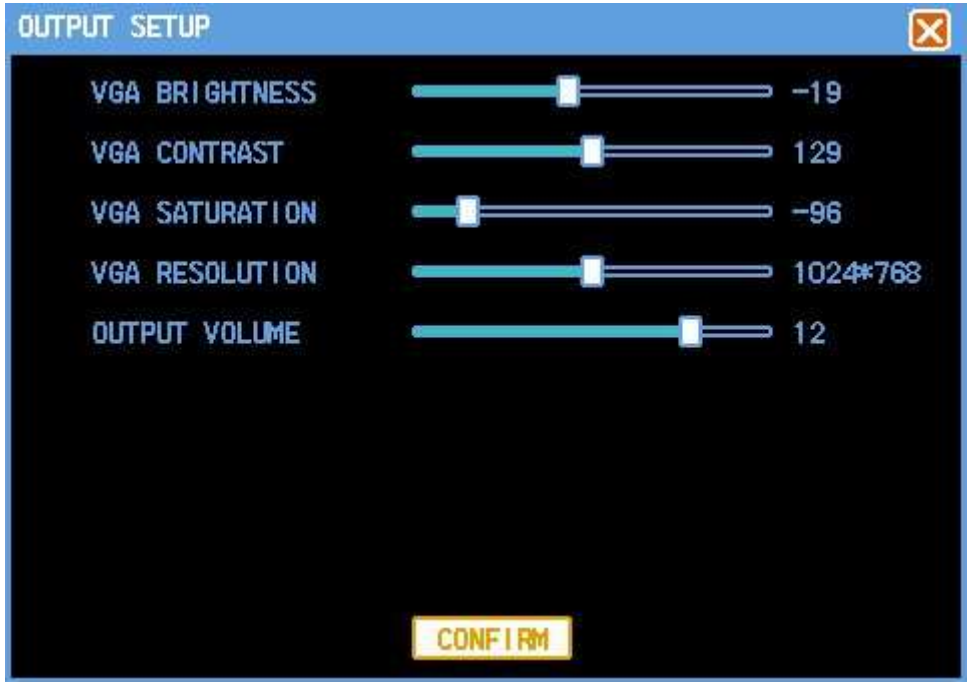
Set the item can Autonomous Maintenance.

User can set the automatic reboot system themselves, the automatic reboot system need to set the date and time, (please make sure to set the enable function in DVR where longtime no body to look for it. Finally to click the confirm button, otherwise, it will be canceled. User can copy the upgrade firmware software into USB drive, click the “start upgrade” button, after finished upgrade successful, the system will reboot automatically.



4.2.7.4 Output Adjustment

Adjust the VGA output area, brightness, chromaticity and resolution.



4.2.7.5 Revert Default

System revert to the default setting status of Delivery (according to revert the details sleeted in the menu.

Attention: Menu color, language, date time format, video system, IP address, user account etc. can not be reverted.

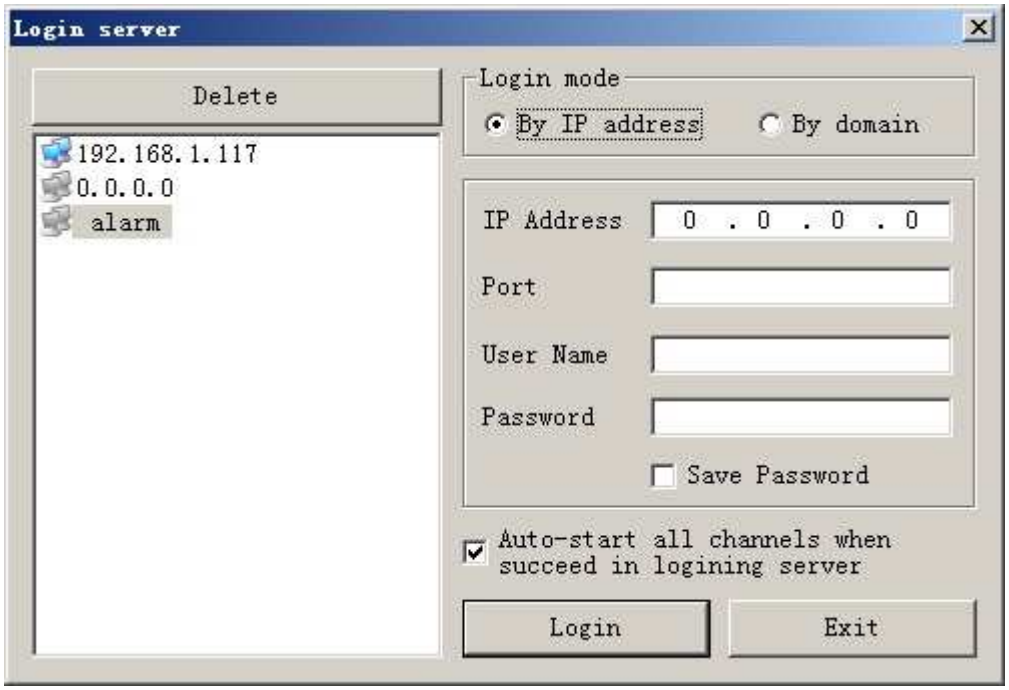
4.2.8 File Backup

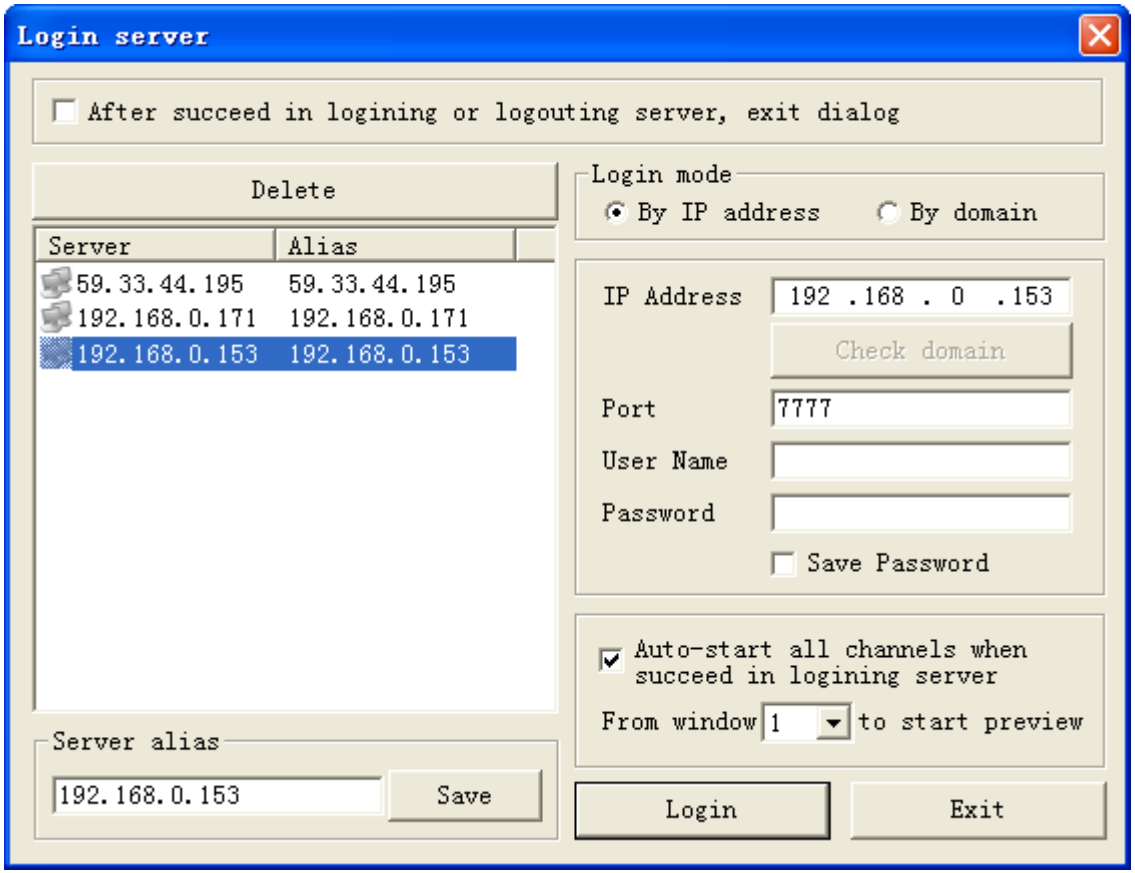
Please see the details of it at Chapter III 3.7 (The Backup Operation of Recording File).

Chapter Five IE Preview

5.1 logging on interface

5.1.1 To input the IP address





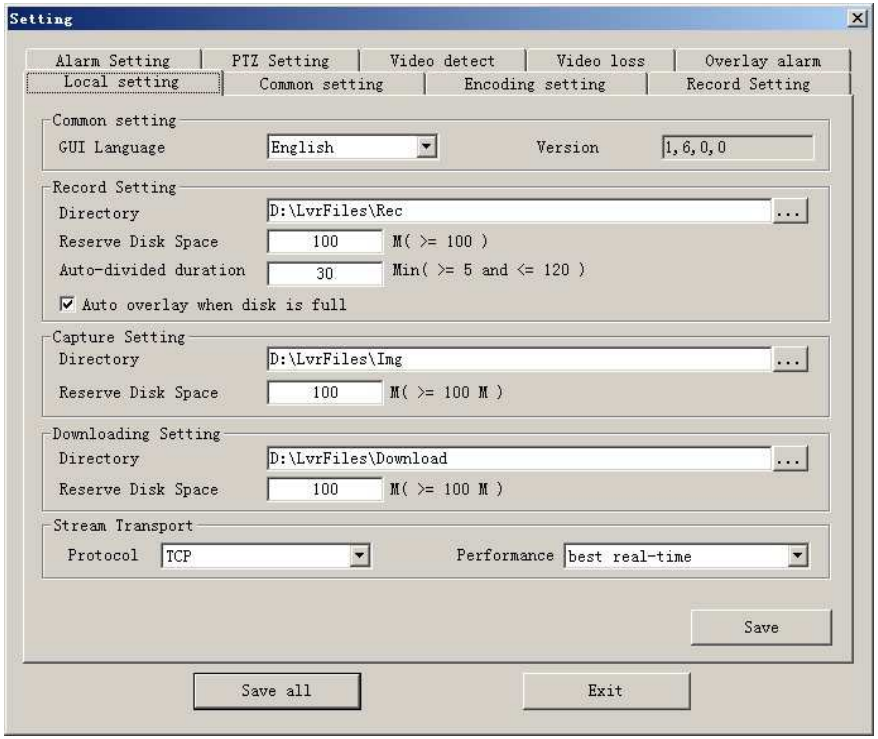
Pretermission IP address is 192.168.0.117

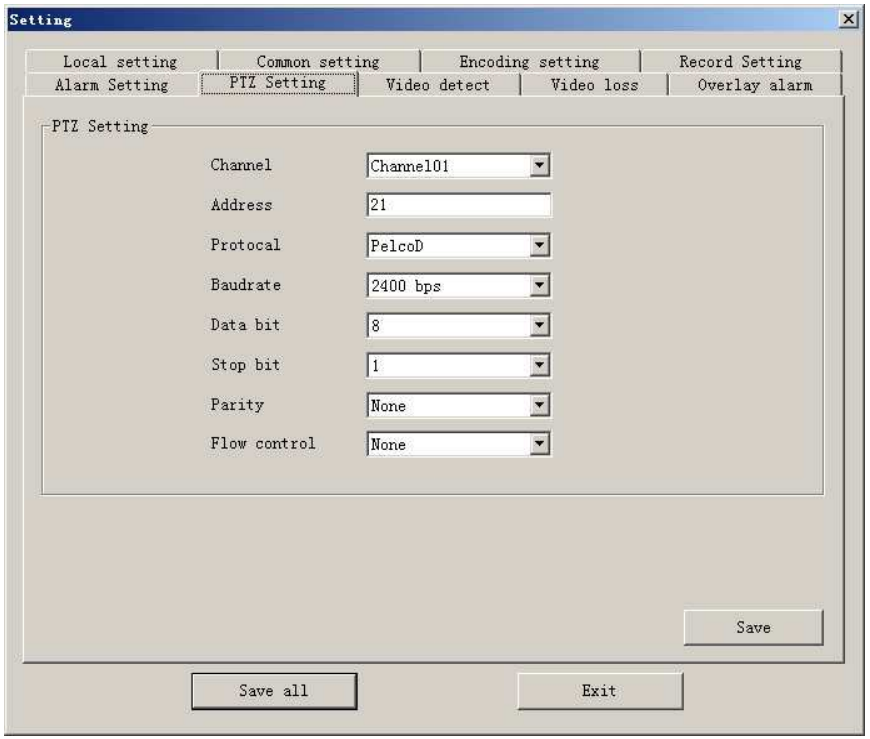
1 Live01-192.168.0.193
CH 01
2009-03-05 20:42:23 THU
2 Live02-192.168.0.193
CH 02
2009-03-05 20:42:23 THU
3 Live03-192.168.0.193
CH 03
2009-03-05 20:42:23 THU
4 Live04-192.168.0.193
CH 04
2009-03-05 20:42:23 THU
5 Live05-192.168.0.193
CH 05
2009-03-05 20:42:23 THU
6 Live06-192.168.0.193
CH 06
2009-03-05 20:42:23 THU
H.264 Embedded
DVR
Login
Control
Setup
+ Focus -
+ Aux -
+ Zoom -
+ Iris -

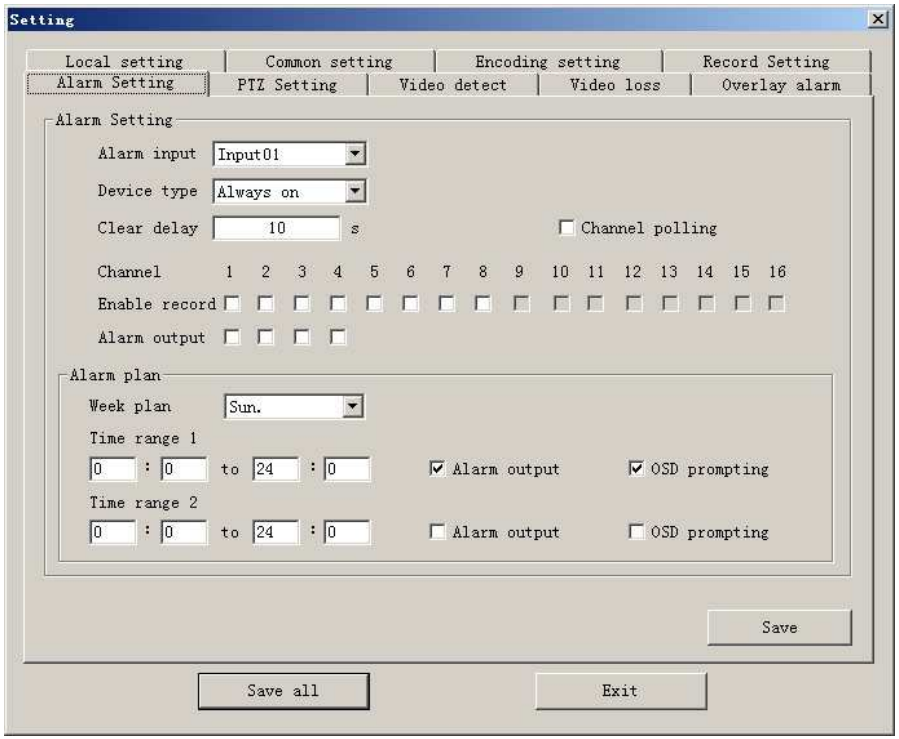
5.2 System Settings

Point

, As the picture ,You can set up language directory,After all to save you set.

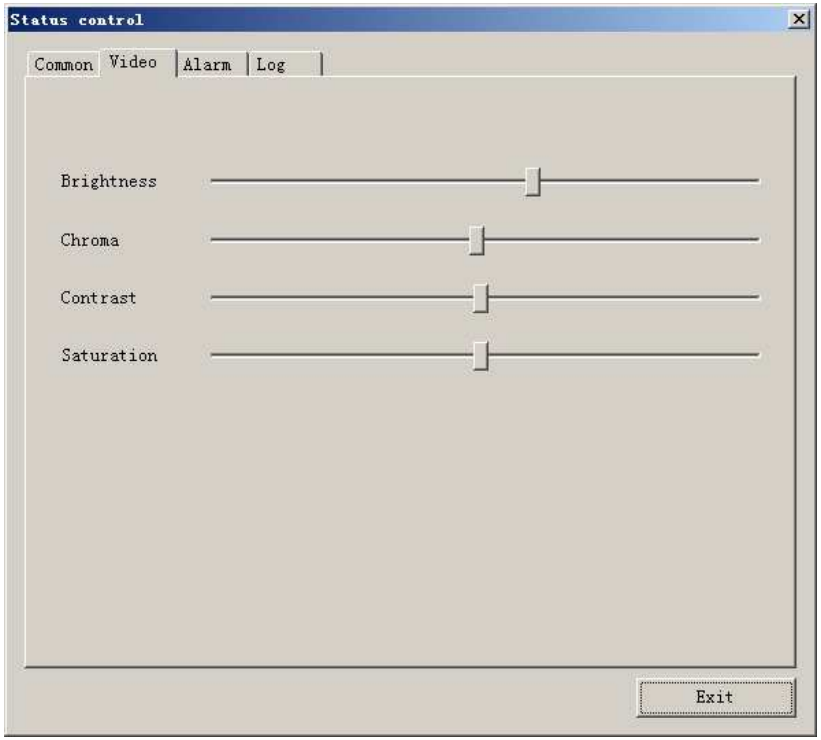


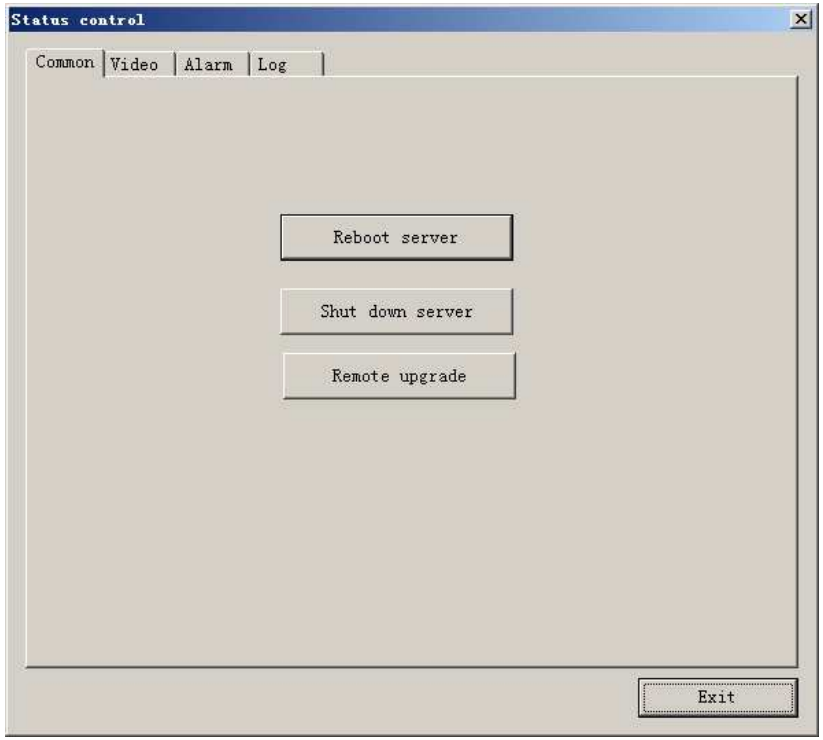

Setting
Local setting
Common setting
Encoding setting
Record Setting
Alarm Setting
PTZ Setting
Video detect
Video loss
Overlay alarm
PTZ Setting
Channel
Channel01
Address
21
Protocal
PelcoD
Baudrate
2400 bps
Data bit
8
Stop bit
1
Parity
None
Flow control
None
Save
Save all
Exit

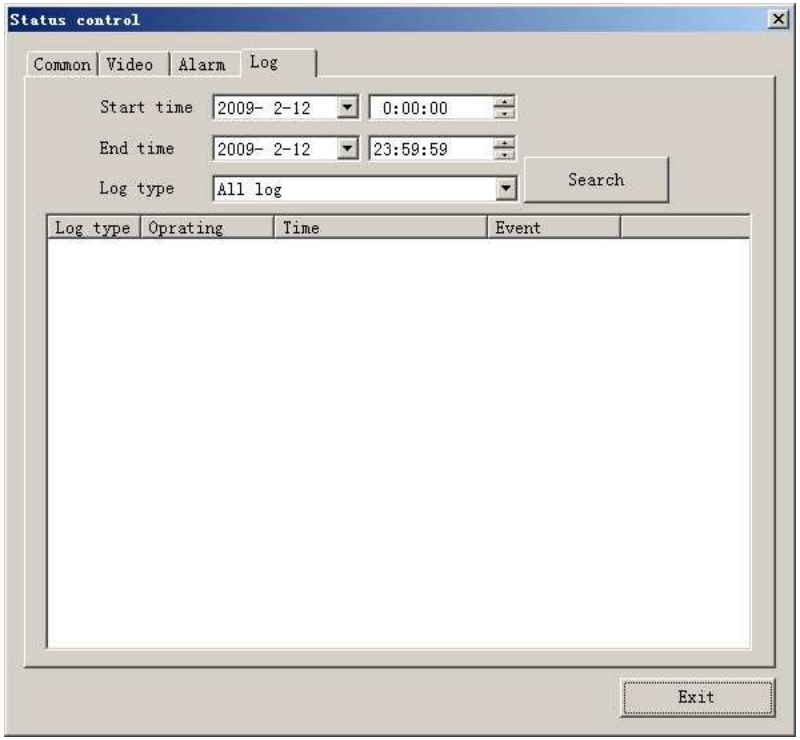

Setting
Local setting
Common setting
Encoding setting
Record Setting
Alarm Setting
PTZ Setting
Video detect
Video loss
Overlay alarm
Alarm Setting
Alarm input
Input01
Device type
Always on
Clear delay
10
s
Channel polling
Channel
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
Enable record
Alarm output
Alarm plan
Week plan
Sun.
Time range 1
0 : 0 to 24 : 0
Alarm output
OSD prompting
Time range 2
0 : 0 to 24 : 0
Alarm output
OSD prompting
Save
Save all
Exit

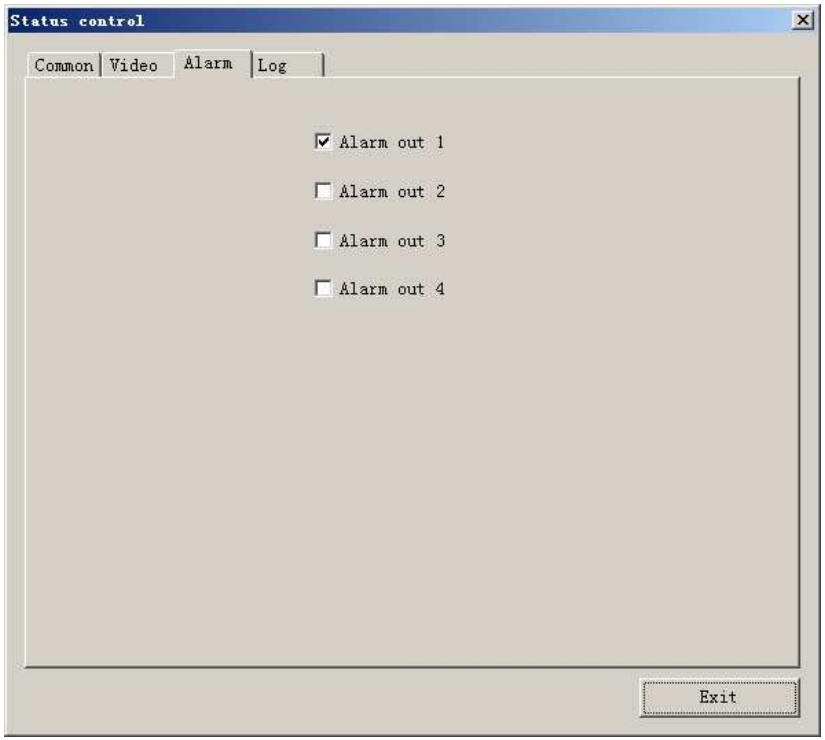
5.3 State control

In state control you can set reboot server, close server , remote to go up
Remote upgrade: let PC file load in the system
Log: to inquire sometime the server’s action






Status control
Common
Video
Alarm
Log
Start time
2009- 2-12
0:00:00
End time
2009- 2-12
23:59:59
Log type
All log
Search
Log type
Oprating
Time
Event
Exit


Status control
Common
Video
Alarm
Log
Alarm out 1
Alarm out 2
Alarm out 3
Alarm out 4
Exit

Chapter Six Instruction for mobile monitor

Remark: only the mobile phone with Windows Mobile and Symbian operating system can support the mobile phone monitor function.

6.1. DVR Setup

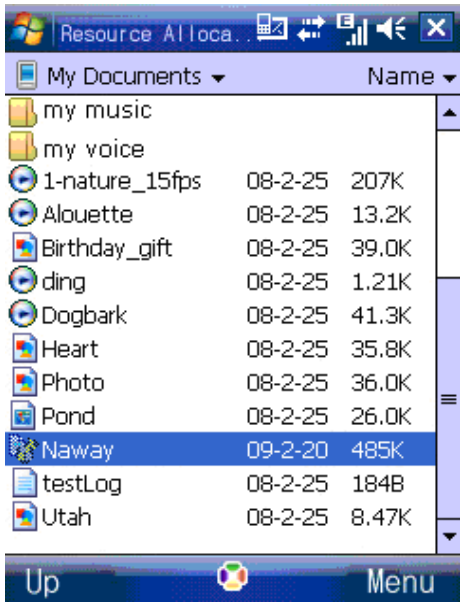
Please login MAIN MENU>>>>>NETWORK, setup MOBILE PORT:

6.2. Mobile phone setup

6.2.1 Windows Mobile Operating system

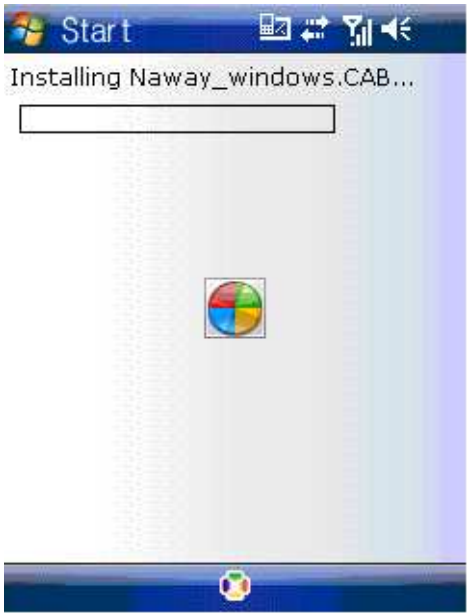
1) Program download

Please copy the installation program whose name is amplayersetup.CAB from the attached CD to your mobile phone, the default save path is My Documents.

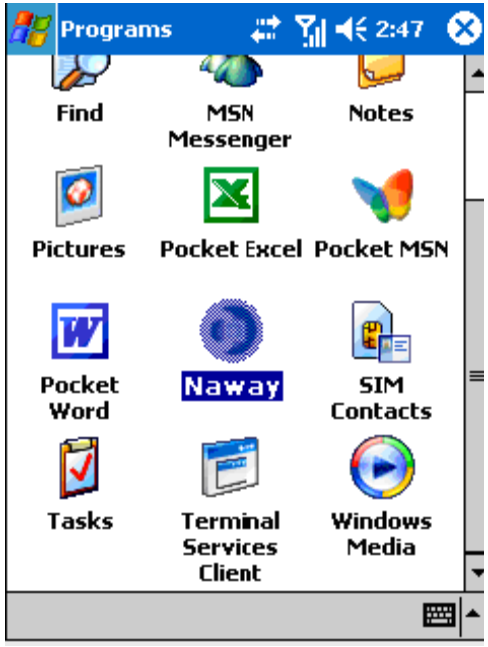


2) Click the program and start to install it, just select default path when it ask you to select install path.

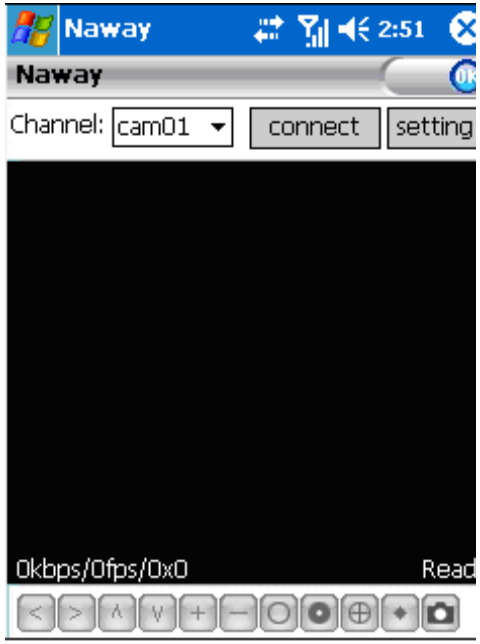
3) Click install button to start to install.



4) After installed, click the Naway icon to run the program.



5) login the main interface as follow.



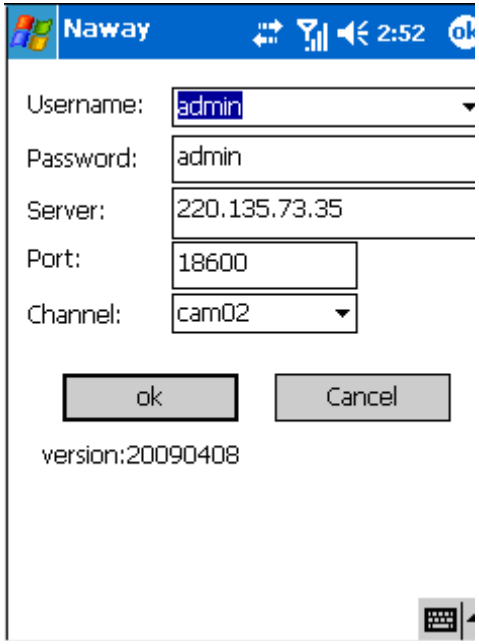
Channel: select the channel you want to monitor. When you select a channel, it will connect to DVR automatically.
Connect: press it to connect to DVR.
Setup: Press it to enter into the interface to config the parameters for mobile phone monitor.

Button definition：【PTZ direction control (left、right、up、down)】；【area select (zoom in、zoom out)】；【focus (＋、 -)】；【aperture (＋、 -)】；

【snapshot】.

Remark: Please make sure the parameters for PTZ in DVR is correct.
Snapshot default save path is: Program>>>Naway>>>> photo

6) When you login for the first time, please setup the network parameters first, press setup to enter into the interface, as follow:



User name: can be blank.
Password: should be the same as IE.
Sever: the public IP or dynamic domain name of DVR.
Sever port: this port is the mobile port you setup in DVR.
Channel: setup the default channel you want to check.
Please press OK after you finished setup.

7) Display mode

Normal/Full screen

Remark: Click screen can switch the display mode between normal and full screen.

6.2.2 Symbian Operating system

1) Please copy the install program whose name is amplayersetup.CAB from the attached CD to your mobile phone, the default save path is memory card. As follow:

2) Click the program to install it.

3) You can select the install path you want as the follow picture .

4) Please select continue when you got the follow window, and make sure your mobile phone can access to internet.

5) you will got a message “install finished” after installed successful.

6) Please find the Naway icon in Application and run it.

7) when you login, you will find the window as follow:

Button definition：

CH1 CH2 PTZ ： up left zoom in + focus + aperture +

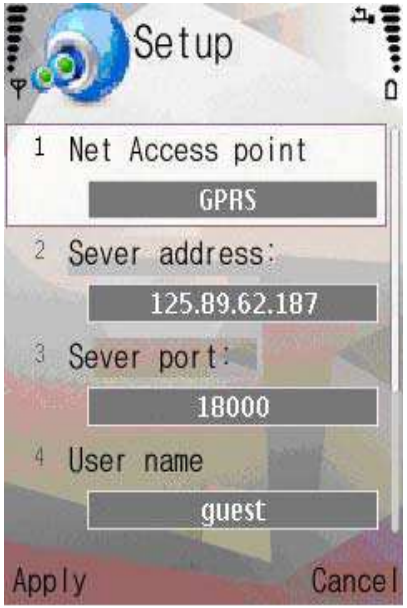
CH3 CH4 PTZ ：down right zoom out – focus – aperture –

【Play/Pause】【Full screen/Normal】【Snapshot】【Setup】【Exit】

Remark: Snapshot default save path is: "C：\Data\Images\”

8) When you login for the first time, please setup the network parameters first, press

【Setup】 to enter into the interface, as follow:



Net Access point: Please select the network, GPRS/EDGE/3G
Sever address: the public IP or dynamic domain name of DVR.
Sever port: the sever port is the mobile port you setup in DVR.
User name: can be blank.
Password: the same as IE.
Channel: setup the default channel you want to check.
Please press Apply after you finished setup.

9) Display mode

Normal/ Full screen

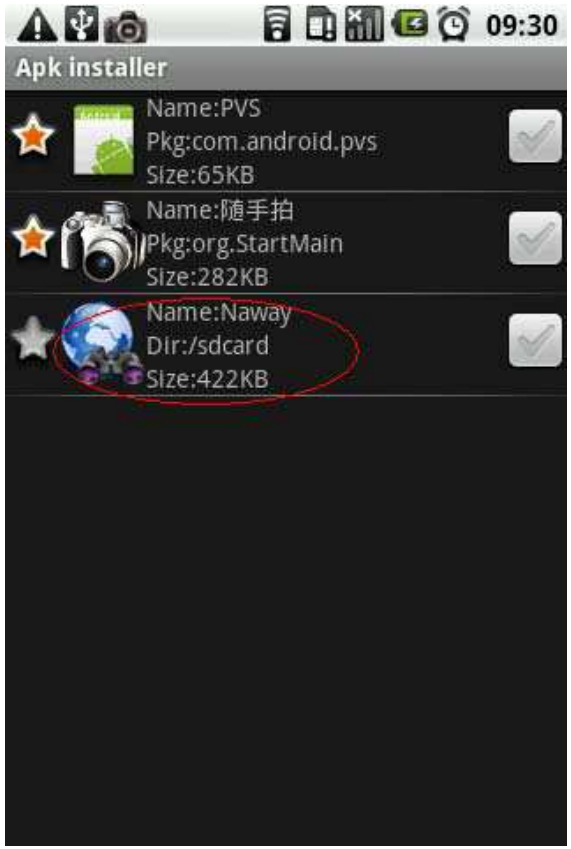
Remark: Click screen can switch the display mode between normal and full screen.

6.2.3 Android Operating system

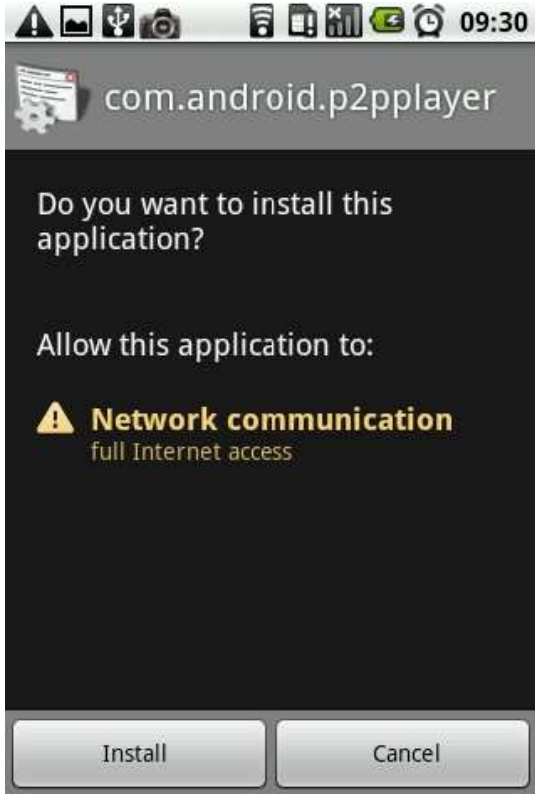
1 Install the program

1. Copy the setup software P2PPlayer.apk to SD card.

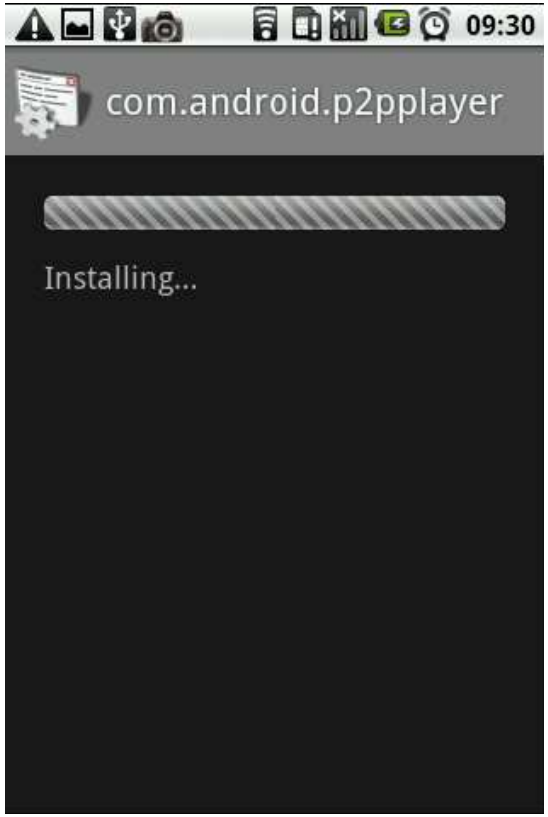
2. Close USB, access to [Setting] — [Applications] — [Application installer], and then the user can find the setup file:



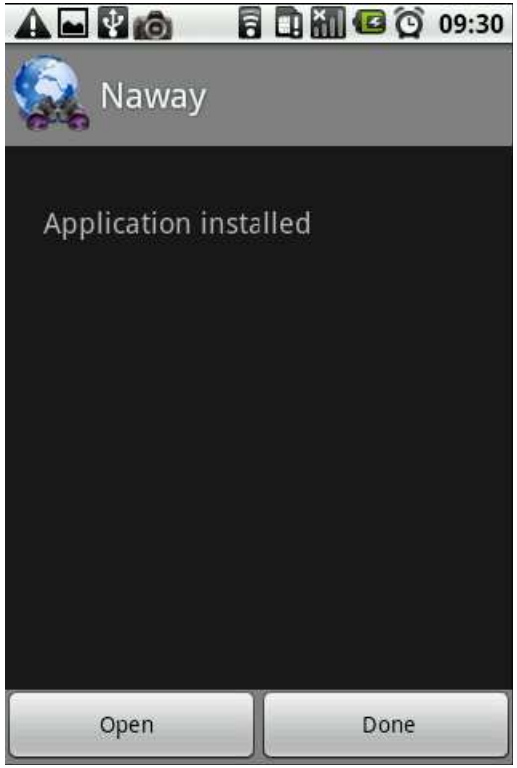
Clue: Do you want to install this application?



Press “Install” button.



If the installation is finished, the picture is as below:



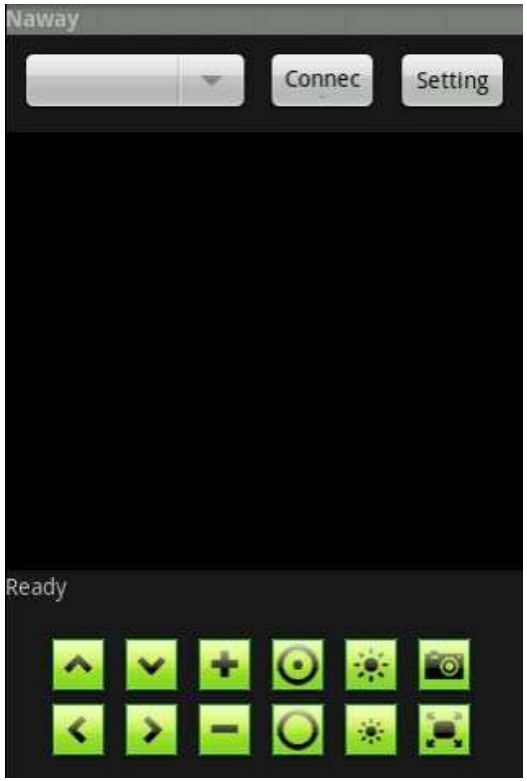
2. System explanation

P2PPlayer phone port mainly contain: video surveillance, channel switch, full screen magnify, PTZ control, focus, capture image, save as favorite and exit function.

2.1 System main interface

After the installation, press“Naway” icon in the application, see the below picture:

Open the main interface, see the below picture:



2.2 System setting interface

For the first time using or need to modify the parameters, press [Setting] button to access to the parameters setting.

Favorite:
The record which is saved can be found here;
UserName:
The user name which is set on DVR [phone surveillance];
Password:
The user password which is set on DVR [phone surveillance];
Server:
The public IP address and dynamic domain name of DVR.
Port:
The server port which is set on DVR [mobile phone].
ChannelCount:
Set the quantity of the channel.
Default channel:
Set the default channel which will do the video surveillance.

RecordName:
Save the name of the record.

①After the setting press [Save] then it will go to the favorite folder. Next time you can find the record in the file.

②After the setting press [setting] and back to the front interface.

After the setting, press “connect” button on the main interface and then it will connect the server. In this interface it can also switch the channel, full screen magnify, PTZ control, focus, phone capture and full screen display.

The detail information is as below:

: Press this icon to connect the server

: Press this icon to open the setting interface

: Switch the channel function.

: It can control the PTZ move up, down, left and right.

: It can operate the zoom, focus and iris.

: Press it to enter into full screen mode, press it again back to the common mode.

: Capture the image function.

3 Familiar questions and their answers

1：Why it can not connect the server?

a: Check the setting page layout, server, port, user name, password is right or not.
b: Check the internet; check if the mobile phone is connected with the internet.

2：After enter into the main interface, why the user can not control the PTZ?

a: Check if the channel has the PTZ.
b: The reflection of the PTZ is too slow, please wait for a moment.

6.2.4 Iphone Operating system

I. The installation of Aplayer

1. Open the icon“

”, the below image will appear:

Image 1

2. Click“

”, Input “naway” in the searching bar, click “

” the below image will appear:

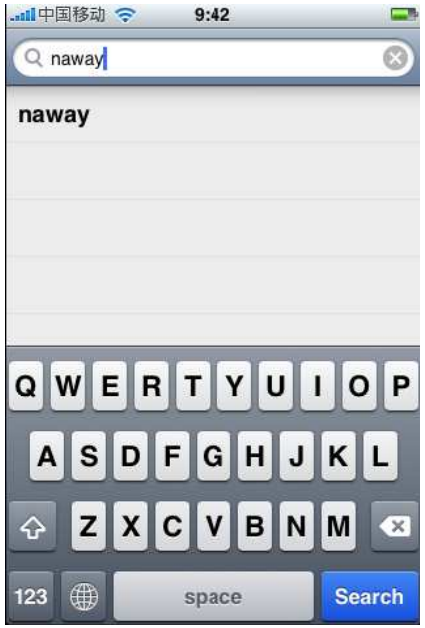


Image 2

3. Then the image 3 will appear:

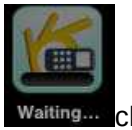
Image 3

4. After click the “FREE” on image 3, the image 4 will appear, click “INSTALL”option on image 4, and the image 5 will appear. Input the password of Apple account on image 5, then click “ok”, image 6 will appear.

Image 4

image 5

Image 6

5． After 

change to

on image 6, it means it is downloading

Aplayer software and set it automatically. After the process bar “ ” of

is full, it means it finishes the installation.

6．After finishing the installation, the interface of the mobile phone will appear Naway icon, like the image 7.

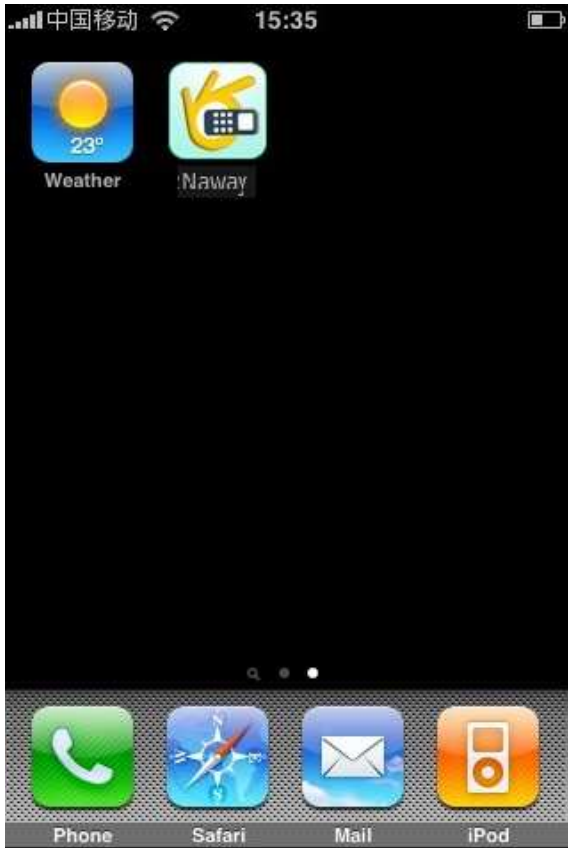


Image7

II. How to use APlayer

1. Click Aplayer icon, open the software. The introduction of the interface function is as below:

① PTZ direction key (up, down, left and right)

② PTZ lens control (magnify+, reduce-),(focus+, focus-), (iris+, iris-)

③ Choose the monitor channel

④ The function of the key from left to right: Pause, capture, full screen mode,next monitor option, monitor connection setting.

⑤ Exit, the middle key of the phone

2. Set the monitor point: it is the same setting with Symbian and Windows.

① IP address of the monitor point

② Network port

③ User name

④ Password

❓ 01：Why the DVR did not run after connect the power supply?

- ①Please check the power switch turn on or off at the rear panel of DVR.
- ②Please check if the turn on DVR operation correct or not?
- ③If you select the adaptor +12V, 5A or above? (8ch 5A, 16ch 220V 200W)

❓ 02：Still stop over on the boot-strap frame?

- Physical damaged in hard disk drive
- Boot manager abnormal.

❓ 03：Why does appear the boot running too slow?

- ①There are too much capacity data in hard disk drive, the system will automatic search the data when the system boot up, caused the boot running slow.
- ②The hard disk drive error will cause the system research the data repeatedly, caused the boot running slow.

❓ 04：Why does the system reboot repeatedly?

- ①Check the hard disk drive, if there is not the FAT32 formatted in it or the problem in it and caused the DVR reboot;
- ②Please check the power supply of DVR, if you installed a lot of hard disk drive, it may be reboot repeatedly underpower;
- ③Please pull up the network cable, then to check the DVR can work normally or not, being the catastrophe failure in network, it will cause the DVR reboot repeatedly;

❓ 05：Why does the system halted of DVR during the playback and search the video file information in progress?

- Please check if you install the hard disk drive or if the drive is ok or not? Please replace the good one for it soon;
- If the ambient temperature on the high side or not?
- Is there any heaven current installation surrounding and external video device, heavy current surging video cable, caused the DVR can not work properly and the system halted;

? 06：Firmware upgrade failure?

- U drive is not good compatible with the DVR, cause the DVR can not detected it, suggested to try one or two more different kind of U drive in the market;
- USB interface is not good;
- The voltage hunting fearfulness during the system firmware upgrade in progress;

? 07：Why the display color is black and white in TV and VGA monitor?

- Check the video system is it matching the video input, DVR, TV or VGA monitor, if there is not on all fours, please set the video system mode in auto automatic recognition;

? 08：Why does nothing display on the TV or VGA monitor?

- ①please make sure if the power supply of TV or VGA monitor turn on or not; if the illumination located in the lowest status?
- ②if the video connected with TV or VGA monitor properly? Check if there is any video signal input? And make sure the line faulty or not?

? 09：Why does the video like water wave, to appear obstruction distortion?

- ①if there is short circuit, open circuit or insufficient solder and connection failure of video cable?
- ②If the video cable obstruction by high voltage interference, please separate the video and high voltage in linkup cabling, at the meantime, please select the better quality, shield video cable for the project;
- ③In the whole system, only select the central point to grounding, please do not multi port to grounding, then, cause the common mode obstruction, please connect the screw in DVR rear panel to grounding;
- ④Check if there is the become old problem in the camera or TV monitor and cable?

? 10：Why do the color of live video and record video data distortion?

- ①Make sure the input and output video parameter of main menu setting correct;
- ②Make sure the connection is correct;

❓ 11：Why does the video skew became deformed, color cast?

👉 ①Make sure the VGA cable and DVR be connected with grounding properly;

👉 ② The DVR working atmosphere temperature high, or no good in radiating, cause the VGA chipset working exceptional, or the mention circuit parameter is abnormal;

❓ 12：Why does the record video playback in mosaic under local DVR?

👉 ①The recording parameter setting is too low cause the record video quality overall down, sometime appears to mosaic;

👉 ②The record video file locates where there is a bad sector in a hard disk drive, it will cause the mosaic raising;

Postscript

Product parameter Table

	4CH	8CH	16CH
Compress standard	H.264 baseline profile@L3.1		
Video in	BNC（1.0Vp-p/75Ω）	BNC（1.0Vp-p/75Ω）	BNC（1.0Vp-p/75Ω）
Video out	1 BNC(1.0Vp-p,75Ω),1VGA.	1 BNC(1.0Vp-p,75Ω),1VGA.	1 BNC(1.0Vp-p,75Ω),1VGA.
Picture standard	PAL(720×576)， NTSC(720×480)	PAL(720×576)， NTSC(720×480)	PAL(720×576)， NTSC(720×480)
resolution ratio	1024x768/800x600	1024x768/800x600	1280x1024/1024x768
Record encoded	D1/HD1/CIF	D1/HD1/CIF	D1/HD1/CIF
Record play	1/4CH	1/4/8CH	1/4/8/16CH
Roll rate	PAL:1~25 roll/S；NTSC:1~30 roll/S	PAL:1~25 roll/S；NTSC:1~30 roll/S	PAL:1~25 roll/S；NTSC:1~30 roll/S
Audio in	RCA×1CH/4CH	RCA×1CH/8CH	RCA×4CH/16CH
Audio out	BNC×1	BNC×1	RCA×1
Audio encoded	ADPCM	ADPCM	ADPCM
Audio encoded rate	32Kbps	32Kbps	32Kbps
Alarm In	4CH	4CH	4CH

Alarm Out	1CH	1CH	1CH
Record mode	Manual record，motionrecord and externa alarm record	Manual record，motionrecord and externa alarm record	Manual record，motionrecord and externa alarm record
Mult mode	Record，P lay，Internet	Record，P lay，Internet	Record，P lay，Internet
Network interface	RJ45(10M/100M)	RJ45(10M/100M)	RJ45(10M/100M)
Mobil platform	Naway.CAB；symbian v3；symbian v5；Naway-Android；iphone，Blackberry		
RS485	PTZ control	PTZ control	PTZ control
Communication port	RS485×1，USB2.0×2	RS485×1，USB2.0×2	RS485×1，USB2.0×2
Hard Disc	1or2SATA（maximum 2T）	1or2SATA（maximum 2T）	1or2SATA（maximum 2T）
USB interface	Usb mouse，Usb disc backup	Usb mouse，Usb disc backup	Usb mouse，Usb disc backup
Remote control	Yes	Yes	Yes
Power adapter	12V/2.5A DC	12V/2.5A DC	12V/4A DC
Working temperature	0℃~+60℃	0℃~+60℃	0℃~+60℃
Working humidity	10%~90%	10%~90%	10%~90%
Product size（mm）	330x250x50mm	330x250x50mm	380x300x55mm
Product weight （Kg）	2.6（without disc）	2.6（without disc）	3.0（without disc）

Attention：Power adapter according to the number of hard disk